Date to beat = 7/06/04
7/18/03

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FILE LAST UPDATED: 5 Jul 2007 (20070705/ED)

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L3 53 L2

=> FIL STNGUIDE

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FULL ESTIMATED COST	0.47	172.78

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FILE 'HOME' ENTERED AT 15:30:51 ON 06 JUL 2007

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

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STRUCTURE FILE UPDATES: 5 JUL 2007 HIGHEST RN 941372-96-9
DICTIONARY FILE UPDATES: 5 JUL 2007 HIGHEST RN 941372-96-9

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http://www.cas.org/support/stngen/stndoc/properties.html

=>
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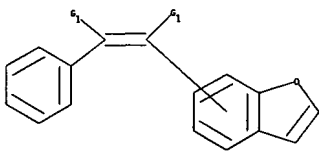

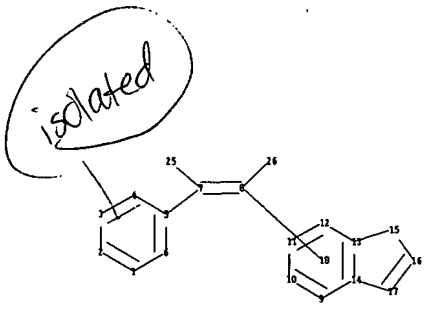

chain nodes :
7 8 19 20 21 22 25 26
ring nodes :
1 2 3 4 5 6 9 10 11 12 13 14 15 16 17
chain bonds :
5-7 7-8 7-25 8-26 19-20 19-21 19-22
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-14 10-11 11-12 12-13 13-14 13-15 14-17
15-16 16-17
exact/norm bonds :
7-25 8-26
exact bonds :
5-7 7-8 13-15 14-17 15-16 16-17 19-20 19-21 19-22
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-14 10-11 11-12 12-13 13-14
isolated ring systems :
containing 1 : 9 :

G1:H,X,[*1]

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS
20:CLASS 21:CLASS 22:CLASS 25:CLASS 26:CLASS

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L1 STRUCTURE UPLOADED

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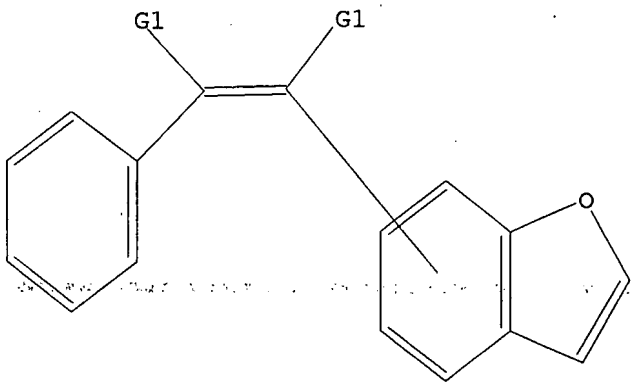
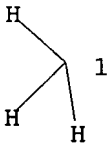
L1 HAS NO ANSWERS
L1 STR





G1 H,X,[@1]

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full
FULL SEARCH INITIATED 15:31:30 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 15805 TO ITERATE

100.0% PROCESSED 15805 ITERATIONS 189 ANSWERS
SEARCH TIME: 00.00.01

L2 189 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	172.10	172.31

FILE 'CAPLUS' ENTERED AT 15:31:34 ON 06 JUL 2007
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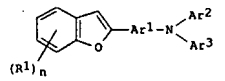
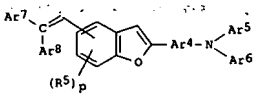
L3 ANSWER 1 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:561317 CAPLUS
DOCUMENT NUMBER: 146:510376
TITLE: Electrophotographic apparatus equipped with short wave-radiating static eliminator and arylamino-containing benzofuran as charge transporter and method for forming image therewith
INVENTOR(S): Niimi, Tatsuya
PATENT ASSIGNEE(S): Ricoh Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 121pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007127764	A	20070524	JP 2005-319377	20051102
PRIORITY APPLN. INFO.:			JP 2005-319377	20051102

GI



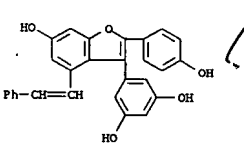
I



II

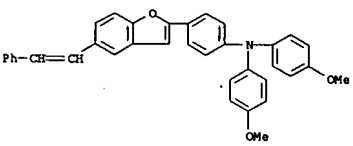
AB The electrophotog. apparatus has a <500 nm light-irradiating static eliminator (e.g., LED, a combination of a xenon lamp and a beam splitter) for removing residual charge from an electrostatic latent image support, i.e., a photoreceptor. The photoreceptor has, on a base, photosensitive layers including a charge-generating layer (containing an azo pigment or a crystalline titanylphthalocyanine) and a charge-transporting layer containing I [Ar1 = arylene, divalent heterocyclic; Ar2, Ar3 = aryl, heterocyclic, aralkyl, C1-5 alkyl, C1-5 (per)fluoroalkyl; R1 = C1-3 alkyl(oxy), C1-5 (per)fluoroalkyl, C1-3 alkyl-containing dialkylamino, halo, H; n = 1-4] or II

L3 ANSWER 2 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:1255820 CAPLUS
DOCUMENT NUMBER: 146:177094
TITLE: Oxidative stress and atherosclerosis. 1. Effects of stilbene analogs on human ox-LDL induced artery wall damage in vitro
AUTHOR(S): Liu, Geng Tao; Liu, Yin Lin
CORPORATE SOURCE: Institute of Materia Medica, Chinese Academy of Medical Sciences, Beijing, Peop. Rep. China
SOURCE: Natural Antioxidants and Micronutrients, Proceedings of the Third International Symposium on Natural Antioxidants: Molecular Mechanisms and Health Effects (ISNA) [and] Meeting of the Society for Free Radical Research (SFRR Asia), Shanghai, China, June 24-29, 2005 (2005), 1-5. Editor(s): Zhao, Baolu; Liu, Gengtao; Packer, Lester. Monduzzi Editore: Bologna, Italy.
CODEN: 69IQR6; ISBN: 88-7587-184-1
DOCUMENT TYPE: Conference
LANGUAGE: English
AB Oxidative stress is known to involve in pathogenesis of atherosclerosis (AS) which characterized a series of mol. and cellular damages of the arterial wall. This paper reported the inhibitory effect of Isorhapontigenin (ISO), a natural analog of resveratrol (RES), on human LDL oxidation and on ox-LDL induced damage and apoptosis of bovine aortic endothelial cells (BABAECs). Preincubation of 3.apprx.30 μM ISO and RES with BAECs significantly attenuated oxidation of human LDL and ox-LDL-induced cytotoxicity and apoptosis. Both ISO and RES markedly reduced oxLDL-initiated generation of free radicals. In the above expts., the efficacy of ISO is more potent than RES. The protective effect of ISO on oxLDL damage to artery wall may be via blocking the generation of ROS.
IT 921612-85-3
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Vam3 attenuated human LDL oxidation, ox-LDL-induced cytotoxicity and apoptosis in bovine aortic endothelial cell)
RN 921612-85-3 CAPLUS
CN 1,3-Benzenediol, 5-[6-hydroxy-2-(4-hydroxyphenyl)-4-(2-phenylethenyl)-3-benzofuranyl]- (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 1 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
(Ar4 = same as Ar1; Ar5, Ar6 = same as Ar2; Ar7, Ar8 = aryl, heterocyclic, aralkyl, C1-3 alkyl, H; R5 = same as R1; p = 1-3). The app. may have, on the photosensitive layers, a protective layer comprising cured product of ≥3-functional radical polymerizable monomer and monofunctional charge-transporting radical polymerizable compd. and contg. inorg. pigment and/or metal oxide with resistivity ≥1010 Ω-cm. Precise image can be formed even after repeated use of the photoreceptor.
IT 936356-11-5
RL: TEM (Technical or engineered material use); USES (Uses)
(charge transporters; electrophotog. apparatus equipped with short wave-radiating static eliminator and arylamino-containing benzofuran as charge transporter)
RN 936356-11-5 CAPLUS
CN Benzenamine, N,N-bis(4-methoxyphenyl)-4-[5-(2-phenylethenyl)-2-benzofuranyl]- (CA INDEX NAME)

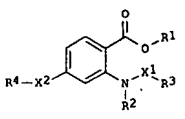


L3 ANSWER 3 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:978457 CAPLUS
DOCUMENT NUMBER: 145:356518
TITLE: Preparation of anthranilic acid derivatives or salts thereof as inhibitors for production of matrix metalloprotease 13 (MMP-13)
INVENTOR(S): Yokotani, Junichi; Taniguchi, Yoichi; Hara, Eiji; Akitsu, Hitoshi; Tanaka, Hidehiko; Anzai, Shuzo
PATENT ASSIGNEE(S): Toyama Chemical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 265pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006098308	A1	20060921	WO 2006-JP304981	20060314

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: JP 2005-74425 A 20050316
OTHER SOURCE(S): MARPAT 145:356518
GI



I

AB The title compds. [I; R1 = H, carboxy-protecting group; R2 = H, imino-protecting group; R3 = phenyl-substituted monocyclic heterocyclyl, each (un)substituted Ph, cycloalkyl, or bicyclic heterocyclyl; R4 = each (un)substituted Ph, thienyl, cycloalkyl, cycloalkenyl, bicyclic heterocyclyl, or pyridyl; X1 = each (un)substituted alkylene or alkenylene, a bond; X2 = CO, X3-X4, X4-X3, O-X4, X4-CONH; X3 = S, (un)protected NH, SO, SO2, a bond; X4 = each (un)substituted alkylene or alkenylene] or salts thereof are prepared These compds. have an effect of inhibiting the production of MMP-13, and therefore are useful as therapeutic agents for rheumatoid arthritis, osteoarthritis, cancer or the like. Thus, Me 4-bromo-2-(4-fluorophenyl)benzoate was coupled with 4-methoxyphenylboronic acid in the presence of bis(acetate)triphenylphosphine palladium(II) supported on a polymer and Na2CO3 in DMF at 160° for 5 min, at 180° for 5 min, at

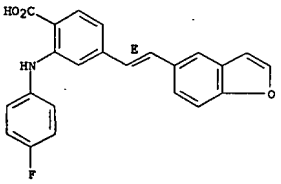
L3 ANSWER 3 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
200° for 5 min, and at 220° for 5 min, followed by sapon. with a mixt. of 2 M aq. NaOH soln. and ethanol and acidification with 0.7 M aq. HCl soln. to give 2-(4-fluoroanilino)-4-(4-methoxyphenyl)benzoic acid (II). II and 4-(3,4-dimethylphenyl)-2-(4-fluoroanilino)benzoic acid in vitro inhibited the prodn. of MMP-13 in human cartilage-derived SW1353 cells by 93 and 98%, resp.

IT 910242-78-3P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(Novel anthranilic acid derivative or salt thereof)

RN 910242-78-3 CAPLUS

CN Benzoic acid, 4-[(1E)-2-(5-benzofuranyl)ethenyl]-2-[(4-fluorophenyl)amino]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



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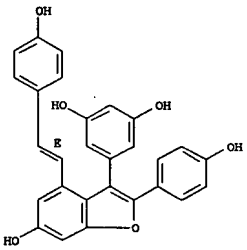
L3 ANSWER 4 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:613907 CAPLUS
DOCUMENT NUMBER: 145:180501
TITLE: Anti-inflammatory effect of amurensin H on asthma-like reaction induced by allergen in sensitized mice
AUTHOR(S): Li, Yi-tang; Yao, Chun-suo; Bai, Jin-ye; Lin, Mao; Cheng, Gui-fang
CORPORATE SOURCE: Department of Pharmacology, Institute of Materia Medica, Peking Union Medical College and Chinese Academy of Medical Sciences, Beijing, 100050, Peop. Rep. China
SOURCE: Acta Pharmacologica Sinica (2006), 27(6), 735-740
CODEN: APSCG5; ISSN: 1671-4083
PUBLISHER: Blackwell Publishing Asia Pty Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Aim: To explore the anti-inflammatory effects of amurensin H on asthma-like reaction induced by allergen in sensitized mice. Methods: BALB/c mice were sensitized by ovalbumin (OVA, i.p.) on d 0 and d 14 and challenged with 1% OVA on d 18 to 22. Mice developed airway eosinophilia, mucus hypersecretion, and elevation in cytokine levels. Mice were administered amurensin H orally at the doses of 49, 70, or 100 mg/kg once every day from d 15 to the last day. Bronchoalveolar lavage fluid (BALF) were collected at 24 h and 48 h after the last OVA challenge. Levels of tumor necrosis factor-α (TNF-α), interleukin 4 (IL-4), interleukin 5 (IL-5), and interleukin 13 (IL-13) in BALF were measured using ELISA method. Differential cell counts of macrophages, lymphocytes, neutrophils and eosinophils were performed in 200 cells per slide (one slide per animal). Lung tissue sections of 6-μm thickness were stained with Mayer's hematoxylin and eosin for assessment of cell infiltration, mucus production, and tissue damage. Results: Oral administration of amurensin H significantly inhibited OVA-induced increases in total cell counts, eosinophil counts, and TNF-α, IL-4, IL-5 and IL-13 levels in BALF. In addition, amurensin H dramatically decreased OVA-induced lung tissue damage and mucus production Conclusion: Amurensin H may have therapeutic potential for the treatment of allergic airway inflammation.

IT 223591-26-2, Amurensin H
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(anti-inflammatory effect of amurensin H on asthma-like reaction induced by allergen in sensitized mice)

RN 223591-26-2 CAPLUS

CN 1,3-Benzenediol, 5-[6-hydroxy-2-(4-hydroxyphenyl)-4-[(1E)-2-(4-hydroxyphenyl)ethenyl]-3-benzofuranyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L3 ANSWER 5 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:577803 CAPLUS
DOCUMENT NUMBER: 145:62687
TITLE: Preparation of N-acylanthranilic acid derivatives or salts thereof as inhibitor for production of matrix metalloproteinase (MMP-13)
INVENTOR(S): Yokotani, Junichi; Taniguchi, Yoichi; Hara, Eiji; Akitsu, Hitoshi; Tada, Yukie
PATENT ASSIGNEE(S): Toyama Chemical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 278 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006062093	A1	20060615	WO 2005-JP22367	20051206
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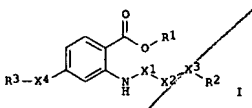
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2005312721	A1	20060615	AU 2005-312721	20051206
PRIORITY APPLN. INFO.:			JP 2004-353725	A 20041207
			WO 2005-JP22367	W 20051206

OTHER SOURCE(S): MARPAT 145:62687

GI



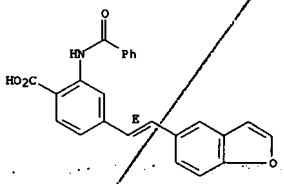
AB The title compds. [I; wherein R1 = H, a carboxy-protecting group; R2 = each (un)substituted Ph, cycloalkyl, or heterocyclic group; R3 = each (un)substituted Ph, cycloalkyl, cycloalkenyl, or monocyclic or bicyclic heterocyclic group; X1 = CO or SO2; X2 = a bond, each (un)substituted alkylene, alkenylene, or alkynylene; X3 = O, S, a bond; X4 = -X5-X6- or -X6-X5- (the left side bond is linked to R3) (wherein X5 = O, S, (un)protected NH, SO, SO2, a bond; X6 = each (un)substituted alkylene, alkenylene, or alkynylene)] or salts thereof are prepared These compds. have an MMP-13 production inhibitory activity and are hence useful as therapeutic agents for articular rheumatism, osteoarthritis, cancer, etc. Thus, Me 2-(benzoylamino)-4-bromobenzoate was coupled with benzofuran-2-boronic acid in the presence of polymer-supported

L3 ANSWER 5 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
Bis(acetato)bis(triphenylphosphine)palladium and Na2CO3 in N,N-dimethylacetamide at 90° for 11 h followed by sapon. and acidification with 1.0 M aq. HCl soln. to give 2-(benzoylamino)-4-(3-methoxyphenyl)benzoic acid (II). II and 2-(benzoylamino)-4-((E)-2-(3-chlorophenyl)vinyl)benzoic acid inhibited the IL-1β-stimulated prodn. of MMP-13 in human cartilage-derived SW1353 cells by 95 and 99%, resp., at 30 μM.

IT 890311-17-8P, 2-(Benzoylamino)-4-[(E)-2-(benzofuran-5-yl)ethenyl]benzoic acid
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of N-acylanthranilic acid derivs. as inhibitors for production of matrix metalloproteinase (MMP-13))

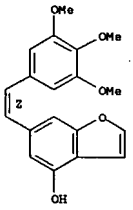
RN 890311-17-8 CAPLUS
CN Benzoic acid, 4-[(1E)-2-(5-benzofuranyl)ethenyl]-2-(benzoylamino)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



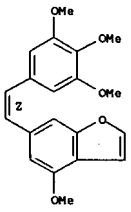
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 6 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



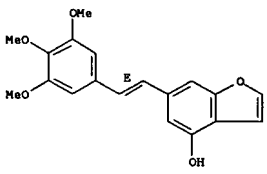
RN 832126-90-6 CAPLUS
CN Benzofuran, 4-methoxy-6-[(1Z)-2-(3,4,5-trimethoxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 832127-51-2 CAPLUS
CN 4-Benzofuranol, 6-[(1E)-2-(3,4,5-trimethoxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L3 ANSWER 6 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:429534 CAPLUS
DOCUMENT NUMBER: 145:95764
TITLE: Novel Combretastatin Analogues Endowed with Antitumor Activity
AUTHOR(S): Simoni, Daniele; Romagnoli, Romeo; Baruchello, Riccardo; Rondanin, Riccardo; Rizzi, Michele; Pavani, Maria Giovanna; Alloatti, Domenico; Giannini, Giuseppe; Marcellini, Marcella; Riccioni, Teresa; Castorina, Massimo; Guglielmi, Mario B.; Bucci, Federica; Carminati, Paolo; Pisano, Claudio
CORPORATE SOURCE: Dipartimento di Scienze Farmaceutiche, Universita di Ferrara, Ferrara, 44100, Italy
SOURCE: Journal of Medicinal Chemistry (2006), 49(11), 3143-3152
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 145:95764
GI

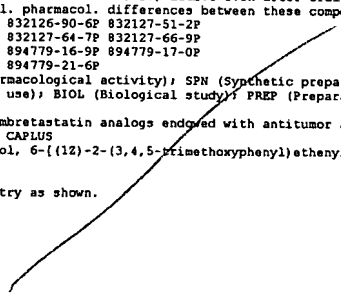
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The authors studied the anticancer activity of a series of new combretastatin derivs. with B-ring modifications. The structure-activity relationship (SAR) information confirmed the importance of cis-stereochem. and of a phenolic moiety in B-ring. The authors selected the benzo[b]thiophene and benzofuran combretastatin analogs (I) and (II) and their phosphate prodrugs (III and IV) for their high antitumor activity in in vitro and in vivo models. Cell exposure to IC50 of I, II, and CA-4 led to the arrest of various cell types in the G2/M phase of the cell cycle and induction of apoptosis. Mainly, I and II induced the formation of multinucleated cells with abnormal chromatin distribution, with only a minimal effect on the microtubule organization, with respect to CA-4. Interestingly, both the pharmacokinetic profile of III and its in vivo antitumor effect and those of IV, active even after oral administration, suggest addnl. pharmacol. differences between these compds. and CA-4P.

IT 832126-72-4P 832126-90-6P 832127-51-2P
832127-63-6P 832127-64-7P 832127-66-9P
832128-09-3P 894779-16-9P 894779-17-0P
894779-20-5P 894779-21-6P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(novel combretastatin analogs endowed with antitumor activity)

RN 832126-72-4 CAPLUS
CN 4-Benzofuranol, 6-[(1Z)-2-(3,4,5-trimethoxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

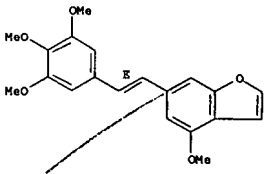
Double bond geometry as shown.



L3 ANSWER 6 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

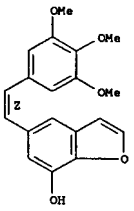
RN 832127-63-6 CAPLUS
CN Benzofuran, 4-methoxy-6-[(1E)-2-(3,4,5-trimethoxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 832127-64-7 CAPLUS
CN 7-Benzofuranol, 5-[(1Z)-2-(3,4,5-trimethoxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

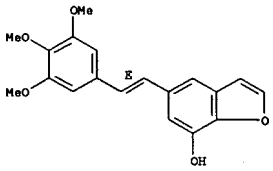


RN 832127-66-9 CAPLUS
CN 7-Benzofuranol, 5-[(1E)-2-(3,4,5-trimethoxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

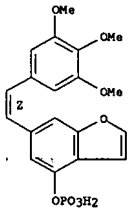
Karen Cheng

L3 ANSWER 6 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 832128-09-3 CAPLUS
CN 4-Benzofuranol, 6-[(1Z)-2-(3,4,5-trimethoxyphenyl)ethenyl]-, dihydrogen phosphate, disodium salt (9CI) (CA INDEX NAME)

Double bond geometry as shown.

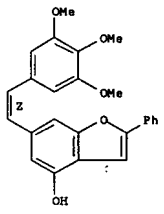


●2 Na

RN 894779-16-9 CAPLUS
CN 4-Benzofuranol, 2-methyl-6-[(1Z)-2-(3,4,5-trimethoxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

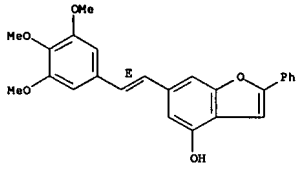
Double bond geometry as shown.

L3 ANSWER 6 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 894779-21-6 CAPLUS
CN 4-Benzofuranol, 2-phenyl-6-[(1E)-2-(3,4,5-trimethoxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

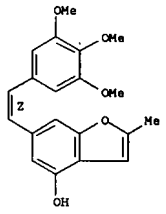
Double bond geometry as shown.



IT 831222-77-6P 831223-04-2P 831223-05-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(novel combretastatin analogs endowed with antitumor activity)
RN 831222-77-6 CAPLUS
CN Phosphoric acid, bis(phenylmethyl) 6-[(1Z)-2-(3,4,5-trimethoxyphenyl)ethenyl]-4-benzofuranyl ester (9CI) (CA INDEX NAME)

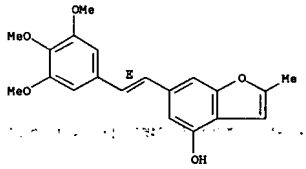
Double bond geometry as shown.

L3 ANSWER 6 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 894779-17-0 CAPLUS
CN 4-Benzofuranol, 2-methyl-6-[(1E)-2-(3,4,5-trimethoxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

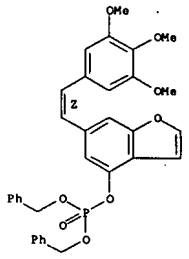
Double bond geometry as shown.



RN 894779-20-5 CAPLUS
CN 4-Benzofuranol, 2-phenyl-6-[(1Z)-2-(3,4,5-trimethoxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

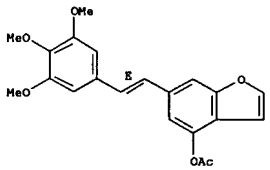
Double bond geometry as shown.

L3 ANSWER 6 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 831223-04-2 CAPLUS
CN 4-Benzofuranol, 6-[(1E)-2-(3,4,5-trimethoxyphenyl)ethenyl]-, acetate (9CI) (CA INDEX NAME)

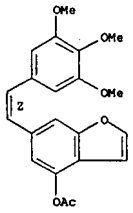
Double bond geometry as shown.



RN 831223-05-3 CAPLUS
CN 4-Benzofuranol, 6-[(1Z)-2-(3,4,5-trimethoxyphenyl)ethenyl]-, acetate (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L3 ANSWER 6 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 7 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN

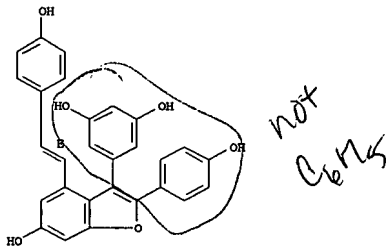
ACCESSION NUMBER: 2005:1231505 CAPLUS
DOCUMENT NUMBER: 144:156596
TITLE: Application of Vitis amurensis extract for treating inflammatory diseases
INVENTOR(S): Cheng, Guifang; Lin, Mao; Hou, Qi; Huang, Kaisheng; Li, Na; Bai, Jinye
PATENT ASSIGNEE(S): Institute of Materia Medica, Chinese Academy of Medical Sciences, Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 23 pp. CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1600304	A	20050330	CN 2003-134647	20030923
PRIORITY APPLN. INFO.:			CN 2003-134647	20030923

AB The effective ingredient of the title Vitis amurensis extract contains amurensin H, heyneanol A and hopeaphenol. The Vitis amurensis extract may be used to treat anaphylactic asthma, rheumatoid arthritis and psoriasis. The medical composition manufactured from the Vitis amurensis extract and medical carriers can be made into tablet, capsule, pill, injection, sustained release preparation, controlled release preparation and granules.
IT 223591-26-2P, Amurensin H
RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PRP (Properties); PUR (Purification or recovery); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(application of Vitis amurensis extract for treating inflammatory diseases)
RN 223591-26-2 CAPLUS
CN 1,3-Benzenediol, 5-[6-hydroxy-2-(4-hydroxyphenyl)-4-[(1E)-2-(4-hydroxyphenyl)ethenyl]-3-benzofuranyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L3 ANSWER 7 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



not C_6H_5

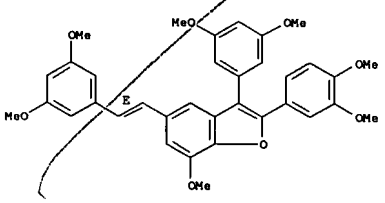
L3 ANSWER 8 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1117315 CAPLUS
DOCUMENT NUMBER: 143:446610
TITLE: Pharmaceutical compositions containing resveratrol derivatives and polymers for the treatment of arthritis, asthma and allergy
INVENTOR(S): Lin, Mao; Cheng, Guifang; Li, Xiaomei; Yao, Chunsuo; Li, Jing
PATENT ASSIGNEE(S): Institute of Materia Medica, Chinese Academy of Medical Sciences, Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 31 pp. CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1566054	A	20050119	CN 2003-147932	20030627
PRIORITY APPLN. INFO.:			CN 2003-147932	20030627
OTHER SOURCE(S):	MARPAT 143:446610			

AB The invention relates to a new oligomer stilene compound of resveratrol, its preparation, medicinal composite and application, specifically the application in treating rheumatoid arthritis, asthma, and allergic disease. For example, capsules contained gnetumontanin B isolated from Gnetum montanum and cis-ε-viniferin prepared from resveratrol can inhibit production of TNF α.
IT 868611-50-1P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(pharmaceutical compns. containing resveratrol derivs. and polymers for the treatment of arthritis, asthma and allergy)
RN 868611-50-1 CAPLUS
CN Benzofuran, 2-(3,4-dimethoxyphenyl)-3-(3,5-dimethoxyphenyl)-5-[(1E)-2-(3,5-dimethoxyphenyl)ethenyl]-7-methoxy- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



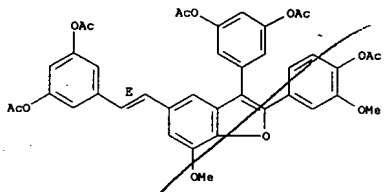
L3 ANSWER 9 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1093269 CAPLUS
DOCUMENT NUMBER: 145:166996
TITLE: Total synthesis of (±)-shegansu B, gnetuhainin F, (±)-maackin A and (±)-cassigarol E
AUTHOR(S): Li, Wen-Ling; He, Kan-Kan; Li, Ying; Hou, Zi-Jie
CORPORATE SOURCE: Institute of Organic Chemistry and State Key Laboratory of Applied Organic Chemistry, Lanzhou University, Lanzhou, 730000, Peop. Rep. China
SOURCE: Huaxue Xuebao (2005), 63(17), 1607-1612
CODEN: HHHPA4; ISSN: 0567-7351
PUBLISHER: Kexue Chubanshe
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
OTHER SOURCE(S): CASREACT 145:166996
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The total synthesis of four naturally occurring dimeric stilbenes, (±)-shegansu B I (R = Me, R1 = R2 = H), gnetuhainin F I (R = Me, R1R2 = bond), (±)-maackin A I (R = R1 = R2 = H) and (±)-cassigarol E (II), were studied. Isorhapontigenin and piceatannol were prepared from 3,5-dihydroxybenzoic acid in six steps. Oxidative coupling of isorhapontigenin and piceatannol with HRP/H2O2 gave their resp. dimeric compds. The first total synthesis of gnetuhainin F, (±)-maackin A and (±)-cassigarol E was described and the oxidative coupling yield of synthesis of (±)-shegansu B was higher than that reported in the literature.
IT 308320-57-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(total synthesis of the naturally occurring dimeric stilbenes (±)-shegansu B, gnetuhainin F, (±)-maackin A and (±)-cassigarol E via oxidative coupling)
RN 308320-57-2 CAPLUS
CN 1,3-Benzenediol, 5-[2-[4-(acetyloxy)-3-methoxyphenyl]-5-[(1E)-2-[3,5-bis(acetyloxy)phenyl]ethenyl]-7-methoxy-3-benzofuranyl]-, diacetate (9CI) (CA INDEX NAME)

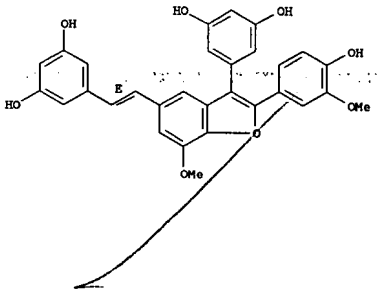
Double bond geometry as shown.

L3 ANSWER 9 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



IT 308105-02-4P Gnetuhainin F
RL: SPN (Synthetic preparation); PREP (Preparation)
(total synthesis of the naturally occurring dimeric stilbenes (±)-shegansu B, gnetuhainin F, (±)-maackin A and (±)-cassigarol E via oxidative coupling)
RN 308105-02-4 CAPLUS
CN 1,3-Benzenediol, 5-[5-[(1E)-2-(3,5-dihydroxyphenyl)ethenyl]-2-(4-hydroxy-3-methoxyphenyl)-7-methoxy-3-benzofuranyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



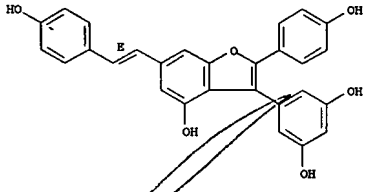
L3 ANSWER 10 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1048456 CAPLUS
DOCUMENT NUMBER: 143:352838
TITLE: Cosmetic compositions limiting skin wrinkles caused by subcutaneous muscle contractions containing resveratrol and/or its derivatives
INVENTOR(S): Fructus, Alain Edouard
PATENT ASSIGNEE(S): AF Consulting, Fr.
SOURCE: Fr. Demande, 25 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2867977	A1	20050930	FR 2004-3118	20040326

PRIORITY APPLN. INFO.: FR 2004-3118 20040326

AB Cosmetic, pharmaceutical and dermo-pharmaceutical compns. intended to prevent and/or fight against the wrinkles of the skin caused and/or accentuated by s.c. muscle contractions are disclosed. The presents invention describes the family of the stilbenes that presents the property of reduction of the muscular contractions, hitherto not described for this chemical groups. Formulation of an antiaging cream contained 6% resveratrol is disclosed.
IT 181480-72-8, Anigopreissin A 389059-69-2, Amurensin M
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(cosmetic compns. limiting skin wrinkles caused by s.c. muscle contractions containing resveratrol and/or its derivs.)
RN 181480-72-8 CAPLUS
CN 1,3-Benzenediol, 5-[4-hydroxy-2-(4-hydroxyphenyl)-6-[(1E)-2-(4-hydroxyphenyl)ethenyl]-3-benzofuranyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

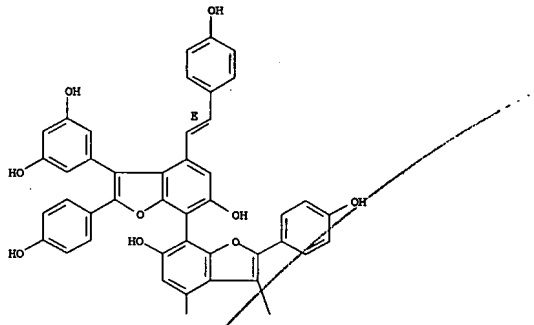


RN 389059-69-2 CAPLUS
CN [7,7'-Bibenzofuran]-6,6'-diol, 3,3'-bis(3,5-dihydroxyphenyl)-2,2'-bis(4-hydroxyphenyl)-4,4'-bis[(1E)-2-(4-hydroxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

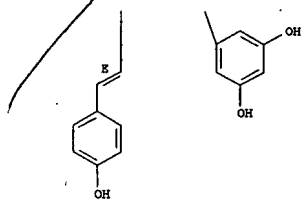
Double bond geometry as shown.

L3 ANSWER 10 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A



PAGE 2-A



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Karen Cheng

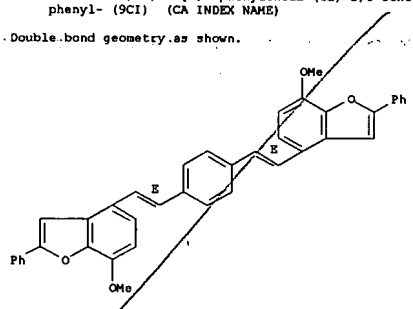
L3 ANSWER 11 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:248982 CAPLUS
DOCUMENT NUMBER: 142:471804
TITLE: New Benzo[b]furans as Electroluminescent Materials for Emitting Blue Light
AUTHOR(S): Hwu, Jih Ru; Chuang, Kao-Shuh; Chuang, Shih Hsien; Tsay, Shwu-Chen
CORPORATE SOURCE: Organosilicon and Synthesis Laboratory Department of Chemistry, National Tsing Hua University, Taichung, Hsinchu, 30013, Taiwan
SOURCE: Organic Letters (2005), 7(8), 1545-1548
CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 142:471804

AB New functionalized mono- and bis-benzo[b]furan derivs. were synthesized and developed as blue-light emitting materials. They possessed a CN, CHO, CH:CHPh, CH:CPh2, or CH:CHCOOH group at the C4-position. Two benzo[b]furan nuclei in bis-benzo[b]furan derivs. were connected by a divinylbenzene bridge. With good volatility and thermal stability, a bis-benzo[b]furan was fabricated as a device. It emitted blue light with brightness 53430 cd/m2 (at 15.5 V) and high maximum external quantum efficiency 3.75% (at 11 V).

IT 851066-37-0P
RL: DEV (Device component use); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(target benzo[b]furan; new benzo[b]furans as electroluminescent materials for emitting blue light and device fabrication therefrom)

RN 851066-37-0 CAPLUS
CN Benzofuran, 4,4'-[1,4-phenylenedi-(1E)-2,1-ethenediyl]bis[7-methoxy-2-phenyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

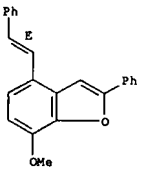


IT 851066-35-6P 851066-34-7P 851066-38-1P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(target benzo[b]furan; new benzo[b]furans as electroluminescent

L3 ANSWER 11 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
materials for emitting blue light and device fabrication therefrom)

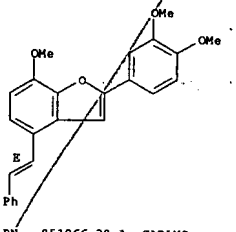
RN 851066-33-6 CAPLUS
CN Benzofuran, 7-methoxy-2-phenyl-4-[(1E)-2-phenylethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 851066-34-7 CAPLUS
CN Benzofuran, 2-(3,4-dimethoxyphenyl)-7-methoxy-4-[(1E)-2-phenylethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

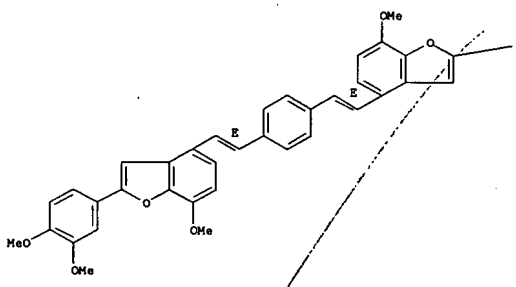


RN 851066-38-1 CAPLUS
CN Benzofuran, 4,4'-[1,4-phenylenedi-(1E)-2,1-ethenediyl]bis[2-(3,4-dimethoxyphenyl)-7-methoxy- (9CI) (CA INDEX NAME)

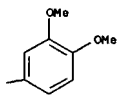
Double bond geometry as shown.

L3 ANSWER 11 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B



REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 12 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:71172 CAPLUS
DOCUMENT NUMBER: 142:176612
TITLE: Preparation of combretastatin derivatives with cytotoxic activity
INVENTOR(S): Simoni, Daniele; Romagnoli, Romeo; Giannini, Giuseppe; Alloati, Domenico; Pisano, Claudio
PATENT ASSIGNEE(S): Sigma-Tau Industrie Farmaceutiche Riunite S.p.A., Italy
SOURCE: PCT Int. Appl., 76 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

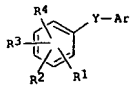
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005007635	A2	20050127	WO 2004-IT373	20040706
WO 2005007635	A8	20050512		
WO 2005007635	A3	20050811		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004257011	A1	20050127	AU 2004-257011	20040706
CA 2531389	A1	20050127	CA 2004-2531389	20040706
EP 1646616	A2	20060419	EP 2004-745198	20040706
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
CN 1826330	A	20060830	CN 2004-80020757	20040706
BR 2004012744	A	20060926	BR 2004-12744	20040706
IN 2005KN02718	A	20061208	IN 2005-KN2718	20051226
US 2006160773	A1	20060720	US 2006-563465	20060105
PRIORITY APPLN. INFO.:			IT 2003-BM455 A	20030718
			WO 2004-IT373 W	20040706

OTHER SOURCE(S): CASREACT 142:176612; MARPAT 142:176612
GI

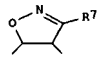
current

Karen Cheng

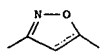
L3 ANSWER 12 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



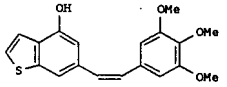
I



II



III



IV

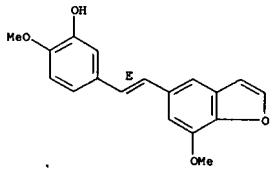
AB Combretastatin derivs., such as I [R1, R2, R3, R4 = H, OH, OMe, OCH2O, NO2, F, Cl, Br, OPO3H2, OCH2OPO3H2 and their disodium salts; R1R2 = CR8:CR9X; R8, R9 = H, OH, NO2, NH2, halo, OPO3H2, OCH2OPO3H2 and their disodium salts; X = O, S, N; Y = CR5:CR6-cis or trans; II, III; R5, R6 = H, halo; R7 = H, OMe, SO2Ph; Ar = aryl, heterocyclyl], are prepared and evaluated for their cytotoxic activity. The prepared compds., though chemical related to the structure of cis/trans-combretastatin, do not always bind tubulin, but nevertheless exhibit cytotoxic activity of interest in the oncol. field as anticancer and/or antiangiogenic agents. Thus, combretastatin derivative IV was prepared via a multistep synthetic sequence starting from 2-thienylcarboxaldehyde, diethylsuccinate and (3,4,5-trimethoxybenzyl)triphenylphosphonium bromide. IV exhibited cytotoxicity against bovine microcirculatory endothelial cells (IC50 = 87±1 nM).

IT 831222-83-4P 831222-87-8P 831223-03-1P
832122-55-1P 832125-58-3P 832126-72-4P
832126-90-6P 832127-51-2P 832127-63-6P
832127-64-7P 832127-66-9P 832128-09-3P
832128-20-8P 832128-21-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of combretastatin derivs. as anticancer and/or antiangiogenic agents)

RN 831222-83-4 CAPLUS
CN Phenol, 2-methoxy-5-[(1E)-2-(7-methoxy-5-benzofuranyl)ethenyl]- (9CI) (CA INDEX NAME)

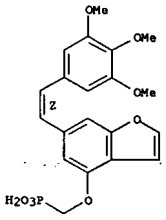
Double bond geometry as shown.

L3 ANSWER 12 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 831222-87-8 CAPLUS
CN Phosphonic acid, [[[6-[(1Z)-2-(3,4,5-trimethoxyphenyl)ethenyl]-4-benzofuranyl]oxy]methyl]-, disodium salt (9CI) (CA INDEX NAME)

Double bond geometry as shown.

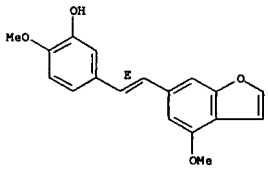


●2 Na

RN 831223-03-1 CAPLUS
CN Phenol, 2-methoxy-5-[(1E)-2-(4-methoxy-6-benzofuranyl)ethenyl]- (9CI) (CA INDEX NAME)

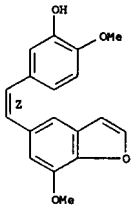
Double bond geometry as shown.

L3 ANSWER 12 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



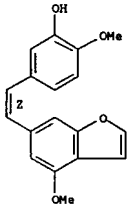
RN 832122-55-1 CAPLUS
CN Phenol, 2-methoxy-5-[(1Z)-2-(7-methoxy-5-benzofuranyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 832125-58-3 CAPLUS
CN Phenol, 2-methoxy-5-[(1Z)-2-(4-methoxy-6-benzofuranyl)ethenyl]- (9CI) (CA INDEX NAME)

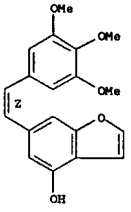
Double bond geometry as shown.



L3 ANSWER 12 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

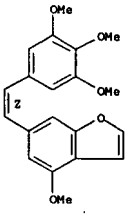
RN 832126-72-4 CAPLUS
CN 4-Benzofuranol, 6-[(1Z)-2-(3,4,5-trimethoxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 832126-90-6 CAPLUS
CN Benzofuran, 4-methoxy-6-[(1Z)-2-(3,4,5-trimethoxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

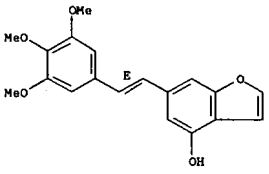


RN 832127-51-2 CAPLUS
CN 4-Benzofuranol, 6-[(1E)-2-(3,4,5-trimethoxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

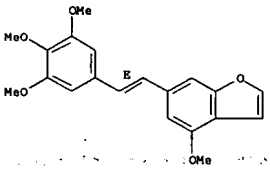
Karen Cheng

L3 ANSWER 12 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 832127-63-6 CAPLUS
CN Benzofuran, 4-methoxy-6-[(1E)-2-(3,4,5-trimethoxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

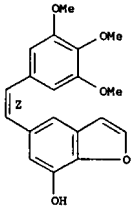
Double bond geometry as shown.



RN 832127-64-7 CAPLUS
CN 7-Benzofuranol, 5-[(1Z)-2-(3,4,5-trimethoxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

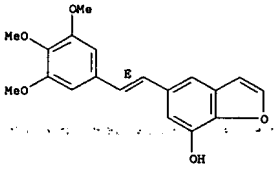
Double bond geometry as shown.

L3 ANSWER 12 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 832127-66-9 CAPLUS
CN 7-Benzofuranol, 5-[(1E)-2-(3,4,5-trimethoxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

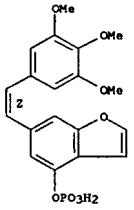
Double bond geometry as shown.



RN 832128-09-3 CAPLUS
CN 4-Benzofuranol, 6-[(1Z)-2-(3,4,5-trimethoxyphenyl)ethenyl]-, dihydrogen phosphate, disodium salt (9CI) (CA INDEX NAME)

Double bond geometry as shown.

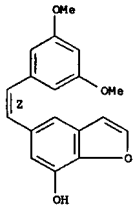
L3 ANSWER 12 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



●2 Na

RN 832128-20-8 CAPLUS
CN 7-Benzofuranol, 5-[(1Z)-2-(3,5-dimethoxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

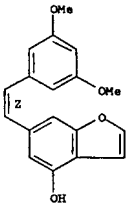
Double bond geometry as shown.



RN 832128-21-9 CAPLUS
CN 4-Benzofuranol, 6-[(1Z)-2-(3,5-dimethoxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

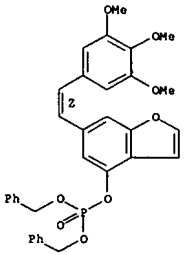
L3 ANSWER 12 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



IT 831222-77-6P 831223-04-2P 831223-05-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of combretastatin derivs. as anticancer and/or antiangiogenic agents)

RN 831222-77-6 CAPLUS
CN Phosphoric acid, bis(phenylmethyl) 6-[(1Z)-2-(3,4,5-trimethoxyphenyl)ethenyl]-4-benzofuranyl ester (9CI) (CA INDEX NAME)

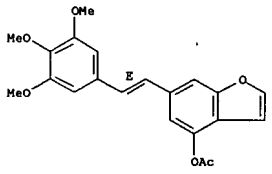
Double bond geometry as shown.



RN 831223-04-2 CAPLUS
CN 4-Benzofuranol, 6-[(1E)-2-(3,4,5-trimethoxyphenyl)ethenyl]-, acetate (9CI) (CA INDEX NAME)

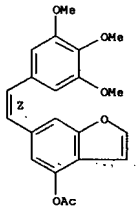
Double bond geometry as shown.

L3 ANSWER 12 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 831223-05-3 CAPLUS
CN 4-Benzofuranol, 6-[(1Z)-2-(3,4,5-trimethoxyphenyl)ethenyl]-, acetate (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L3 ANSWER 13 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:249286 CAPLUS
DOCUMENT NUMBER: 140:275742
TITLE: Cosmetic composition for care of the skin containing resveratrol oligomers, in particular ε-viniferine, and/or their derivatives
INVENTOR(S): Fructus, Alain
PATENT ASSIGNEE(S): AF Consulting, Fr.
SOURCE: Fr. Demande, 29 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2844715	A1	20040326	FR 2002-11629	20020920
FR 2844715	B1	20070427		
PRIORITY APPLN. INFO.:			FR 2002-11629	20020920

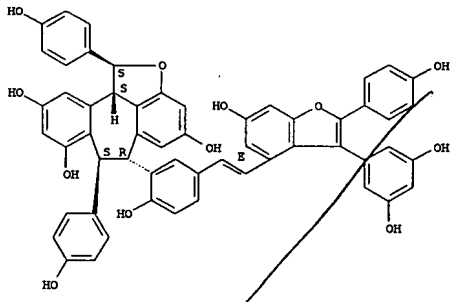
AB Cosmetic compns. for care of skin containing oligomers of resveratrol, in particular ε-viniferine, and/or their derives. are claimed. Tests has shown that oligomers of resveratrol, in particular ε-viniferine and vegetable exts. containing it have useful properties for the skin such as sunscreen, bleaching, anti-radical, anti-oxidizing, and anti-tyrosinase activities, eutrophic activity which increases the renewal of collagen, elastin, and increases the thickness, flexibility, elasticity, firmness of the skin, anti-inflammatory activity, antimicrobial activity specific on the Propionibacterium acne, Staphylococcus aureus, Staphylococcus epidermidis, Malassezia furfur, keratolytic activity, anti-pollution activity, anti-glycation activity, activities allowing the reduction of the white hair and the inhibition of whitening of hair, beard, and the body hairs. The invention describes cosmetic, medicinal products and food complements, intended to prevent and fight against disorders of the skin and its appendix. Many formulations containing resveratrol are disclosed.

IT 223591-28-4, Vitisifuran A 389059-69-2, Amurensin m
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(cosmetic compns. for care of skin undergoing hormonal disequil. containing resveratrol oligomers, in particular viniferine, and/or their derivs.)

RN 223591-28-4 CAPLUS
CN Benzo[6,7]cyclohepta[1,2,3-cd]benzofuran-4,8,10-triol, 6-[5-[(1E)-2-[3-(3,5-dihydroxyphenyl)-6-hydroxy-2-(4-hydroxyphenyl)-4-benzofuranyl]ethenyl]-2-hydroxyphenyl]-1,6,7,11b-tetrahydro-1,7-bis(4-hydroxyphenyl)-, (1S,6R,7S,11bS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.

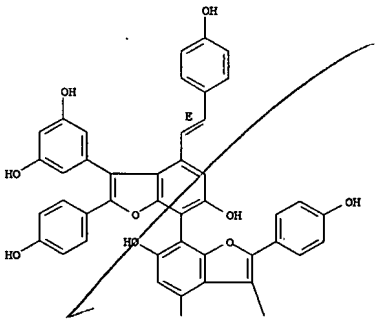
L3 ANSWER 13 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 389059-69-2 CAPLUS
CN [7,7'-Bibenzofuran]-6,6'-diol, 3,3'-bis(3,5-dihydroxyphenyl)-2,2'-bis(4-hydroxyphenyl)-4,4'-bis[(1E)-2-(4-hydroxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

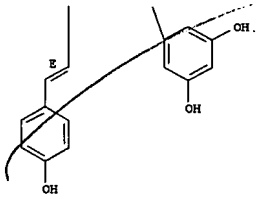
Double bond geometry as shown.

PAGE 1-A



L3 ANSWER 13 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Karen Cheng

L3 ANSWER 14 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:249285 CAPLUS
DOCUMENT NUMBER: 140:275741
TITLE: Cosmetic compositions for the care of the skin undergoing a hormonal disequilibrium containing resveratrol oligomers, in particular epsilone-viniferine, and/or their derivatives
INVENTOR(S): Fructus, Alain
PATENT ASSIGNEE(S): AF Consulting, Fr.
SOURCE: Fr. Demande, 29 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2844714	A1	20040326	FR 2002-11628	20020920
FR 2844714	B1	20070427		
WO 2004026222	A2	20040401	WO 2003-FR2755	20030919
WO 2004026222	A3	20040603		

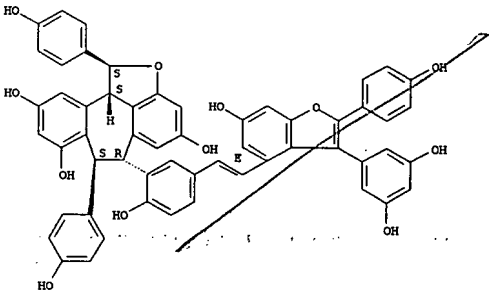
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, N2, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2003283474	A1	20040408	AU 2003-283474	20030919
PRIORITY APPLN. INFO.:			FR 2002-11628 A	20020920
			WO 2003-FR2755 W	20030919

AB Cosmetic compns. intended for the care of the skin and/or the its appendices undergoing a hormonal imbalance, contain oligomers of resveratrol, in particular of the ε-viniferine, and/or some of their derives. The hormonal imbalances exert neg. effects on the state of skin, nails, hair, lips, external genitals, and oral mucous membranes. The menopause causes hormonal imbalances which are significant. Products containing these hormones which are absent in the skin were developed only within pharmaceutical framework, because the use of these hormones are prohibited in cosmetics. Nonsteroidal phytohormones were also used, but the majority of the studies using these products were carried out by oral way. The studies on the topical treatments are not really explicit. The retinoids represent another category of mols. used to treat the cutaneous symptoms of hormonal imbalances. Use of retinoic acid in cosmetics is prohibited because it is teratogenic and very irritating. Studies and patents describe products based on a stilbene and resveratrol. A test carried out with skin of menopause women, shows that ε-viniferine (a dimer of resveratrol), and a vegetable extract containing it, have hormonal and retinoid effects on these skin. The invention describes cosmetic, medicinal products and food complements, intended to prevent and treat the neg. effects of a hormonal imbalance of the skin and its appendices.

L3 ANSWER 14 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
These compns. contain at least an oligomer of resveratrol, and/or a deriv., and/or a vegetable ext. contg. them.
IT 223591-28-4, Vitisifuran A 389059-69-2, Amurensin m
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(cosmetic compns. for care of skin undergoing hormonal disequil. containing resveratrol oligomers, in particular viniferine, and/or their derivs.)
RN 223591-28-4 CAPLUS
CN Benzo[6,7]cyclohepta[1,2,3-cd]benzofuran-4,8,10-triol, 6-[5-[(1E)-2-[3-(3,5-dihydroxyphenyl)-6-hydroxy-2-(4-hydroxyphenyl)-4-benzofuranyl]ethenyl]-2-hydroxyphenyl]-1,6,7,11b-tetrahydro-1,7-bis(4-hydroxyphenyl)-, (1S,6R,7S,11bS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.

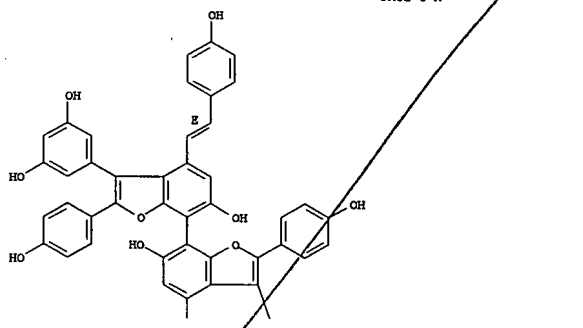


RN 389059-69-2 CAPLUS
CN [7,7'-Bibenzofuran]-6,6'-diol, 3,3'-bis(3,5-dihydroxyphenyl)-2,2'-bis(4-hydroxyphenyl)-4,4'-bis[(1E)-2-(4-hydroxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

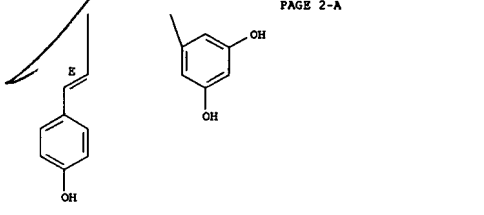
Double bond geometry as shown.

L3 ANSWER 14 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A



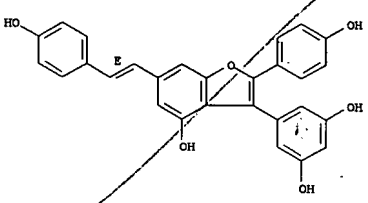
PAGE 2-A



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 15 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:667818 CAPLUS
DOCUMENT NUMBER: 139:361686
TITLE: Differentiation-dependent levels of benzofuran-type resveratrol dimers in root cultures of Anigozanthos preissii
AUTHOR(S): Schneider, Bernd
CORPORATE SOURCE: Max-Planck-Institut fuer Chemische Oekologie, Jena, D-07745, Germany
SOURCE: Phytochemistry (Elsevier) (2003), 64(2), 459-462
CODEN: PYTCAS; ISSN: 0031-9422
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The level of secondary compds. formed by sterile root cultures of Anigozanthos preissii depends on the differentiation state. Cultures showing shoot formation and accelerated growth are depleted in stilbenes, stilbene glucosides, and phenylphenalenones. Three glucosides of anigopreissin A, a benzofuran-type resveratrol dimer, were isolated from slow-growing cultures and their structures elucidated by spectrometric methods.
IT 181480-72-8, Anigopreissin A
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(differentiation-dependent levels of benzofuran-type resveratrol dimer in root cultures of Anigozanthos preissii)
RN 181480-72-8 CAPLUS
CN 1,3-Benzenediol, 5-[4-hydroxy-2-(4-hydroxyphenyl)-6-[(1E)-2-(4-hydroxyphenyl)ethenyl]-3-benzofuranyl]- (9CI) (CA INDEX NAME)

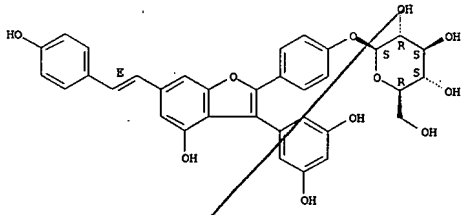
Double bond geometry as shown.



IT 620630-84-4P 620630-85-5P 620630-86-6P
RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(structure and differentiation-dependent levels in root cultures of Anigozanthos preissii)
RN 620630-84-4 CAPLUS
CN β-D-Glucopyranoside, 4-[3-(3,5-dihydroxyphenyl)-4-hydroxy-6-[(1E)-2-(4-hydroxyphenyl)ethenyl]-2-benzofuranyl]phenyl (9CI) (CA INDEX NAME)

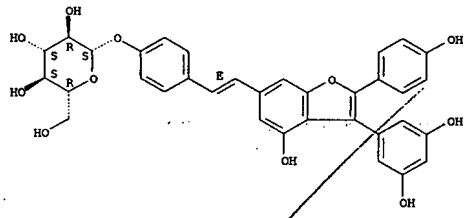
Absolute stereochemistry.
Double bond geometry as shown.

L3 ANSWER 15 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 620630-85-5 CAPLUS
CN β-D-Glucopyranoside, 4-[(1E)-2-[3-(3,5-dihydroxyphenyl)-4-hydroxy-2-(4-hydroxyphenyl)-6-benzofuranyl]ethenyl]phenyl (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

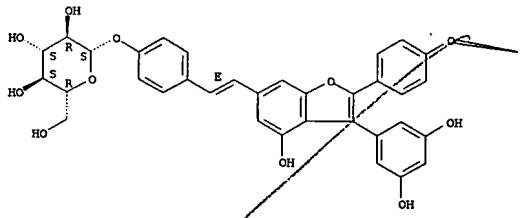


RN 620630-86-6 CAPLUS
CN β-D-Glucopyranoside, 4-[3-(β-D-glucopyranosyloxy)-5-hydroxyphenyl]-6-[(1E)-2-[4-(β-D-glucopyranosyloxy)phenyl]ethenyl]-4-hydroxy-2-benzofuranyl]phenyl (9CI) (CA INDEX NAME)

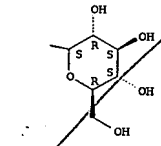
Absolute stereochemistry.
Double bond geometry as shown.

L3 ANSWER 15 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B



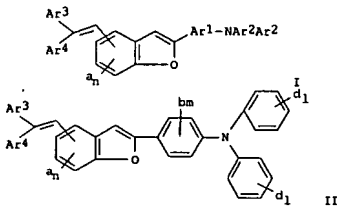
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 16 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:71506 CAPLUS
DOCUMENT NUMBER: 138:128965
TITLE: Electrophotographic photoreceptor containing benzofuran-styryl compound in photosensitive layer and image-forming apparatus using 380-500-nm laser
INVENTOR(S): Kondo, Akihiro; Obata, Koji
PATENT ASSIGNEE(S): Sharp Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003029435	A	20030129	JP 2001-211933	20010712
PRIORITY APPLN. INFO.:			JP 2001-211933	20010712

OTHER SOURCE(S): MARPAT 138:128965
GI



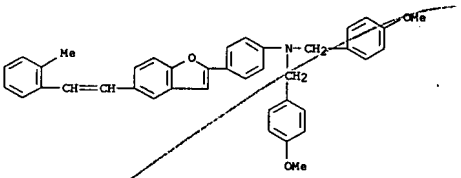
II

AB The electrophotog. photoreceptor contains a benzofuran-styryl compound I (Ar1 = arylene, divalent heterocyclyl; Ar2 = aryl, heterocyclyl, aralkyl; Ar3,4 = aryl, heterocyclyl; n = integer 1-4; and a = C1-5 alkyl, C1-5 fluoroalkyl, etc.) or II (b, d = a; l = integer 1-5; m = integer 1-4) as a charge-transporting substance in a photosensitive layer formed on an elec. conductive support. A ratio of a binder resin to the charge-transporting substance is set at 10/12~10/25. The image forming apparatus using a reversal development process is also claimed. The use of the benzofuran-styryl compound in the photoreceptor prevented light fatigue.

IT 412358-13-5
RL: DEV (Device component use); USES (Uses)
(electrophotog. photoreceptor containing benzofuran-styryl compound in photosensitive layer)

RN 412358-13-5 CAPLUS
CN Benzenemethanamine, 4-methoxy-N-[(4-methoxyphenyl)methyl]-N-[4-[5-[2-(2-methylphenyl)ethenyl]-2-benzofuranyl]phenyl]- (9CI) (CA INDEX NAME)

L3 ANSWER 16 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

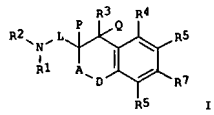


L3 ANSWER 17 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:736244 CAPLUS
DOCUMENT NUMBER: 137:247602
TITLE: Preparation of (pyrrolidinylalkyl)benzofurans and analogs as histamine-3 receptor ligands for treatment of disorders related to CNS neurotransmission
INVENTOR(S): Cowart, Marlon D.; Bennani, Youssef L.; Faghih, Ramin; Gfesser, Gregory A.; Black, Lawrence A.
PATENT ASSIGNEE(S): Abbott Laboratories, USA
SOURCE: PCT Int. Appl., 268 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

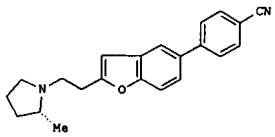
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002074758	A2	20020926	WO 2002-US7107	20020311
WO 2002074758	A3	20030320		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2002177589	A1	20021128	US 2001-810648	20010316
US 2002183309	A1	20021205	US 2002-44495	20020111
US 2002169188	A1	20021114	US 2002-81207	20020225
US 6969730	B2	20051129		
CA 2440238	A1	20020926	CA 2002-2440238	20020311
AU 2002247298	A1	20021003	AU 2002-247298	20020311
EP 1370546	A2	20031217	EP 2002-715079	20020311
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2005500986	T	20050113	JP 2002-573767	20020311
BR 2002005829	A	20050308	BR 2002-5829	20020311
US 2005192277	A1	20050901	US 2005-102415	20050408
PRIORITY APPLN. INFO.:			US 2001-276793P	P 20010316
			US 2001-810648	A 20010316
			US 2002-44495	A 20020111
			US 2002-81207	A 20020225
			WO 2002-US7107	W 20020311

OTHER SOURCE(S): MARPAT 137:247602
GI

L3 ANSWER 17 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



I

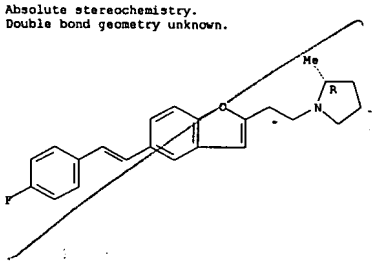


II

AB Title compds. I [wherein A = CO or covalent bond; D = O or S; L = alkylene, fluoroalkylene, or hydroxyalkylene; P and Q taken together form a covalent bond or are both H; R1 and R2 = independently H, (cyclo)alkyl, aryl(alkyl), cycloalkylalkyl, heterocyclyl(alkyl), hydroxyalkyl, alkenyl, or alkynyl; or NR1R2 = heterocyclyl; R3 = H, alkoxy(carbonyl), (halo)alkyl, alkylcarbonyl(oxy), alkylsufinyl, alkylsulfonyl, alkylthio, aryl, carboxy(alkyl), cyano(alkyl), formyl, halo(alkoxy), heterocyclyl, hydroxy(alkyl), SH, NO2, or (un)substituted amino(alkyl), carbamoyl, or sulfamoyl; R4-R7 = independently R3 or L2R20 or R20L3R22; L2 = alkylene, alkenylene, O, S, SO, SO2, CO, C:NOR21, or (un)substituted amino; L3 = covalent bond, alkylene, alkenylene, O, S, CO, N:OR21, or (un)substituted amino; R20 and R22 = independently aryl, heterocyclyl, or cycloalkyl; R21 = H or alkyl; or pharmaceutically acceptable salts, esters, amides, or prodrugs thereof] where prepared for modulation of the histamine-3 (H3) receptors. For example, 4-hydroxy-4'-cyanobiphenyl was treated with NaI, NaOH, and NaOCl in MeOH to give 4'-hydroxy-3'-iodo-[1,1'-biphenyl]-4-carbonitrile (53%). Cyclization with 3-butyn-1-ol in DMF in the presence of CuI and Pd(PPh3)2Cl2 afforded 4-[2-(2-hydroxyethyl)-1-benzofuran-5-yl]benzonitrile (95%). Mesylation (89%), followed by addition of (2R)-2-methylpyrrolidine•HBr and Na2CO3 in AcCN (34%), produced II. The latter displayed binding activity to H3 receptors in rat brain cortex tissue with Ki of 4.44 nM. I are H3 receptor ligands that modulate function of the H3 receptor by antagonizing its activity. Thus, I are useful for the treatment of disorders ameliorated by H3 receptor ligands, especially Alzheimer's disease, attention-deficit hyperactivity disorder, epilepsy, narcolepsy, obesity, cognitive impairment, deficits of memory, deficits of learning, and dementia (no data).
IT 460748-42-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(H3 receptor ligand; preparation of (pyrrolidinylalkyl)benzofurans and

L3 ANSWER 17 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
analogs as histamine-3 receptor ligands for treatment of disorders related to CNS neurotransmission)
RN 460748-42-9 CAPLUS
CN Pyrrolidine, 1-[2-[5-[2-(4-fluorophenyl)ethenyl]-2-benzofuranyl]ethyl]-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

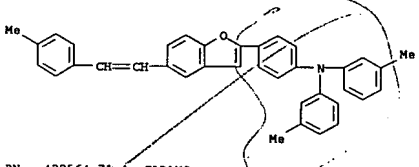
Absolute stereochemistry.
Double bond geometry unknown.



L3 ANSWER 18 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:347863 CAPLUS
DOCUMENT NUMBER: 136:377407
TITLE: Electrophotographic photoreceptor having high near-IR sensitivity
INVENTOR(S): Kondo, Akihiro; Obata, Takashi
PATENT ASSIGNEE(S): Sharp Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

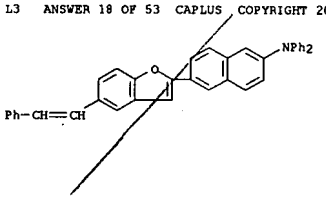
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002131956	A	20020509	JP 2000-323151	20001023
PRIORITY APPLN. INFO.:			JP 2000-323151	20001023

OTHER SOURCE(S): MARPAT 136:377407
AB A photosensitive layer of the electrophotog. photoreceptor comprises (a) an oxotitanylphthalocyanine having a sp. crystal structure as a charge-generating agent, (b) a benzofuran-styryl compound as a charge-transporting agent, (c) a sp. polycarbonate resin and a sp. polyester resin as binder resins, (d) α-tocopherol or 2,6-di-t-Bu-4-Me-phenol as an antioxidant, and (e) dimethylpolysiloxane as a leveling agent. A weight ratio of the polyester to the polycarbonate is 9/1-7/3 (polycarbonate/polyester). A weight ratio of the charge-transporting agent to the antioxidant is 0.1/100-50/100 (antioxidant/charge-transporting agent). The surface layer has a weight ratio of the binder resin to dimethylpolysiloxane 0.001/100-5/100 (dimethylpolysiloxane/binder resin).
IT 422564-69-0 422564-71-4
RL: TEM (Technical or engineered material use); USES (Uses)
(charge-transporting agent; electrophotog. photoreceptor containing)
RN 422564-69-0 CAPLUS
CN Benzenamine, 3-methyl-N-(3-methylphenyl)-N-[4-[5-[2-(4-methylphenyl)ethenyl]-2-benzofuranyl]phenyl]- (9CI) (CA INDEX NAME)



RN 422564-71-4 CAPLUS
CN 2-Naphthalenamine, N,N-diphenyl-6-[5-(2-phenylethenyl)-2-benzofuranyl]- (9CI) (CA INDEX NAME)

L3 ANSWER 18 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

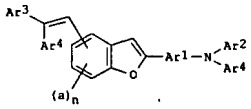


L3 ANSWER 19 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:313346 CAPLUS
DOCUMENT NUMBER: 136:332760
TITLE: Electrophotographic photoreceptor containing benzofuran-styryl compound and method of preparing ther compound
INVENTOR(S): Kondo, Akihiro; Obata, Takashi
PATENT ASSIGNEE(S): Sharp Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002123013	A	20020426	JP 2000-318224	20001018
JP 3576953	B2	20041013		
PRIORITY APPLN. INFO.:			JP 2000-318224	20001018

OTHER SOURCE(S): MARPAT 136:332760
GI



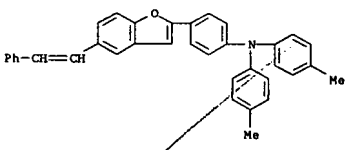
I

AB The invention relates to an electrophotog. photoreceptor containing a novel benzofuran-styryl compound as a charge-transporting substance for improved durability and sensitivity. For example, the benzofuran-styryl compound is represented by I (Ar1 = arylene, divalent heterocyclyl; Ar2 = aryl, heterocyclyl, aralkyl; Ar3,4 = aryl, heterocyclyl, aralkyl, C1-3 alkyl; a = C1-5 alkyl, C1-5 fluoroalkyl, etc.; n = 1-4). The benzofuran-styryl compound is prepared from a benzo[b]furanaldehyde compound and a phosphorous reagent.

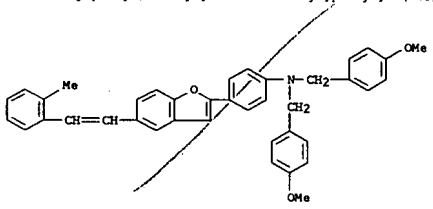
IT 412358-10-2 412358-13-5 412358-14-6
412358-15-7
RL: TEM (Technical or engineered material use); USES (Uses)
(electrophotog. photoreceptor containing benzofuran-styryl charge-transporting substance)

RN 412358-10-2 CAPLUS
CN Benzenamine, N,N-bis(4-methylphenyl)-4-[5-(2-phenylethenyl)-2-benzofuranyl]- (9CI) (CA INDEX NAME)

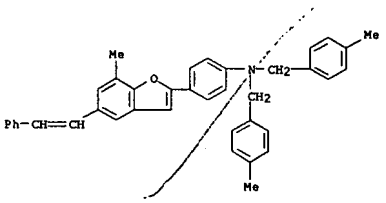
L3 ANSWER 19 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 412358-13-5 CAPLUS
CN Benzenemethanamine, 4-methoxy-N-[(4-methoxyphenyl)methyl]-N-[4-[5-[2-(2-methylphenyl)ethenyl]-2-benzofuranyl]phenyl]- (9CI) (CA INDEX NAME)

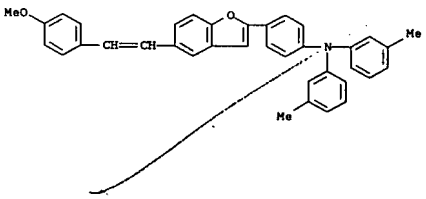


RN 412358-14-6 CAPLUS
CN Benzenemethanamine, 4-methyl-N-[4-[7-methyl-5-(2-phenylethenyl)-2-benzofuranyl]phenyl]-N-[(4-methylphenyl)methyl]- (9CI) (CA INDEX NAME)



RN 412358-15-7 CAPLUS
CN Benzenamine, N-[4-[5-[2-(4-methoxyphenyl)ethenyl]-2-benzofuranyl]phenyl]-3-methyl-N-(3-methylphenyl)- (9CI) (CA INDEX NAME)

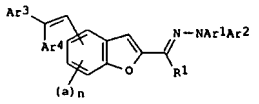
L3 ANSWER 19 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L3 ANSWER 20 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:796459 CAPLUS
DOCUMENT NUMBER: 135:350462
TITLE: Electrophotographic photoreceptor having specific charge-generating substance and specific charge-transporting substance
INVENTOR(S): Kondo, Akihiro; Kohata, Takashi
PATENT ASSIGNEE(S): Sharp Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001305765	A	20011102	JP 2000-126496	20000426
PRIORITY APPLN. INFO.:			JP 2000-126496	20000426

OTHER SOURCE(S): MARPAT 135:350462
GI



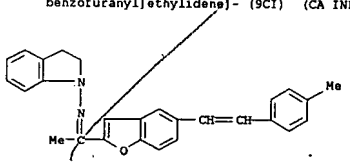
I

AB The title electrophotog. photoreceptor has a light-sensitive layer containing a charge-generating compound and a charge-transporting compound on an electroconductive support, wherein the charge-generating compound is oxo titanium phthalocyanine crystal, which has 7.3°, 9.4°, 9.6°, 11.6°, 13.3°, 17.9°, 24.1°, and 27.2° diffraction peaks showing overlapped 9.4°, 9.6° as the maximum diffraction peaks and 27.2° as the second maximum diffraction peak at a Bragg Angle (2θ±0.2°) in the x-ray diffraction and wherein the charge-transporting compound is benzofuranhydrazone derivative I (Ar1-4 = aryl, aralkyl, C1-5 alkyl, etc.; R1 = aryl, aralkyl, C1-5 alkyl, etc.; a = C1-3 alkyl, C1-5fluoroalkyl, C1-3 alkoxy, etc.; n = 1-3 integer). The photoreceptor, which has the aforementioned charge-generating substance and the aforementioned charge-transporting substance, shows the good sensitivity near-IR light and the good photoreceptor characteristics.

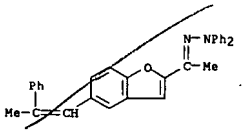
IT 260050-64-4P 260050-67-7P 260050-69-9P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(light-sensitive layer of electrophotog. photoreceptor)

RN 260050-64-4 CAPLUS
CN 1H-Indol-1-amine, 2,3-dihydro-N-[1-[5-[2-(4-methylphenyl)ethenyl]-2-benzofuranyl]ethylidene]- (9CI) (CA INDEX NAME)

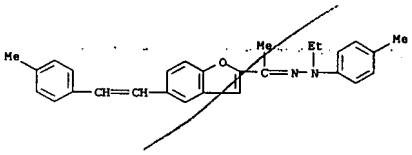
(Continued)



RN 260050-67-7 CAPLUS
CN Ethanone, 1-[5-(2-phenyl-1-propenyl)-2-benzofuranyl]-, diphenylhydrazone (9CI) (CA INDEX NAME)



RN 260050-69-9 CAPLUS
CN Ethanone, 1-[5-[2-(4-methylphenyl)ethenyl]-2-benzofuranyl]-, ethyl(4-methylphenyl)hydrazone (9CI) (CA INDEX NAME)



L3 ANSWER 21 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:667402 CAPLUS
DOCUMENT NUMBER: 136:95752
TITLE: Anti-inflammatory tetramers of resveratrol from the roots of Vitis amurensis and the conformations of the seven-membered ring in some oligostilbenes
AUTHOR(S): Huang, K.-S.; Lin, M.; Cheng, G.-F.
CORPORATE SOURCE: Institute of Materia Medica, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, 100050, Peop. Rep. China
SOURCE: Phytochemistry (2001), 58(2), 357-362
CODEN: PYTCAS; ISSN: 0031-9422
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Five resveratrol tetramers, amurensins I-M, were isolated from the roots of Vitis amurensis (Rupr.), together with five known resveratrol tetramers, (+)-hopeaphenol, isohopeaphenol, vitisin A, (+)-vitisifuran A, and heyneanol A. Their structures and stereochem. were determined by chemical and spectroscopic methods, especially by use of 2D NMR anal. Some of them had an ampelopsin A or a balanocarpol unit, in which the conformations of the seven-membered carbon ring were described for the first time. The anti-inflammatory activities of the tetramers were also tested. Among them, (+)-hopeaphenol, isohopeaphenol, vitisin A, (+)-vitisifuran A and heyneanol A showed potent inhibition on the biosynthesis of leukotriene B4 (LTB4), and amurensins I and L showed strong antagonism of the histamine acceptor.

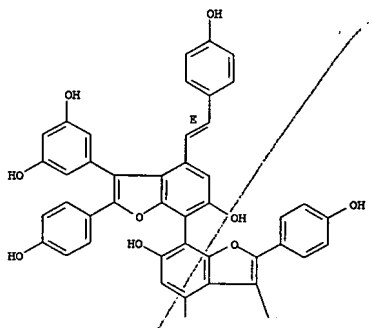
IT 389059-69-2P, Amurensin M
RL: NPO (Natural product occurrence); PAC (Pharmacological activity); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(anti-inflammatory tetramers of resveratrol from roots of Vitis amurensis and conformations of seven-membered ring in oligostilbenes)

RN 389059-69-2 CAPLUS
CN [7,7'-Bibenzofuran]-6,6'-diol, 3,3'-bis(3,5-dihydroxyphenyl)-2,2'-bis(4-hydroxyphenyl)-4,4'-bis[(1E)-2-(4-hydroxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

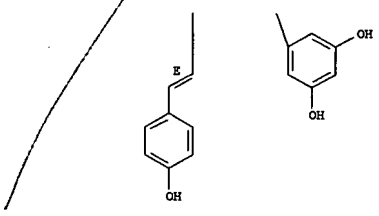
Double bond geometry as shown.

(Continued)

PAGE 1-A



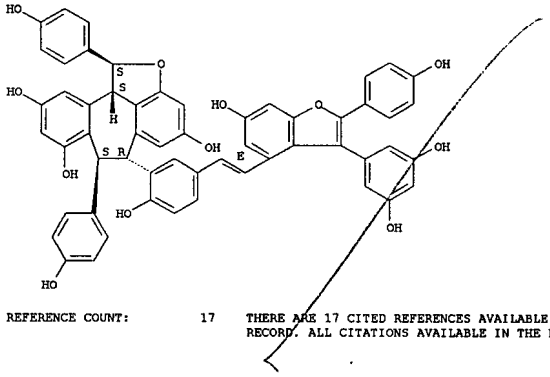
PAGE 2-A



IT 223591-28-4P, (+)-Vitisifuran A
RL: PAC (Pharmacological activity); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(anti-inflammatory tetramers of resveratrol from roots of Vitis amurensis and conformations of seven-membered ring in oligostilbenes)

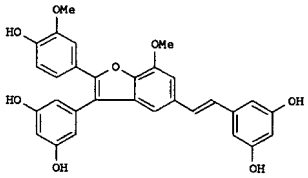
RN 223591-28-4 CAPLUS
CN Benzo[6,7]cyclohepta[1,2,3-cd]benzofuran-4,8,10-triol, 6-[5-[(1E)-2-[3-(3,5-dihydroxyphenyl)-6-hydroxy-2-(4-hydroxyphenyl)-4-benzofuranyl]ethenyl]-2-hydroxyphenyl]-1,6,7,11b-tetrahydro-1,7-bis(4-hydroxyphenyl)-, (1S,6R,7S,11bS)- (9CI) (CA INDEX NAME)

L3 ANSWER 21 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 22 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:658750 CAPLUS
DOCUMENT NUMBER: 134:2644
TITLE: Stilbene dimers from the lianas of Gnetum hainanense
AUTHOR(S): Huang, K.-S.; Wang, Y.-H.; Li, R.-L.; Lin, M.
CORPORATE SOURCE: Institute of Materia Medica, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, 100050, Peop. Rep. China
SOURCE: Phytochemistry (2000), 54(8), 875-881
CODEN: PYTCAS; ISSN: 0031-9422
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

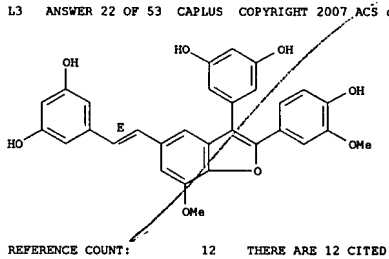


I

AB Five stilbene dimers, gnetuhainins F-J (e.g. I. gnetuhainin F), were isolated together with gnetulin, rhapontigenin, isorhapontigenin and gnetol from the lianas of Gnetum hainanense C. Y. Cheng. Their structures and stereochem. have been established on the basis of spectral evidence, especially 2D NMR spectroscopic techniques.
IT 308105-02-4P, Gnetuhainin F
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(stilbene dimers from Gnetum hainanense)
RN 308105-02-4 CAPLUS
CN 1,3-Benzenediol, 5-[5-[(1E)-2-(3,5-dihydroxyphenyl)ethenyl]-2-(4-hydroxy-3-methoxyphenyl)-7-methoxy-3-benzofuranyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

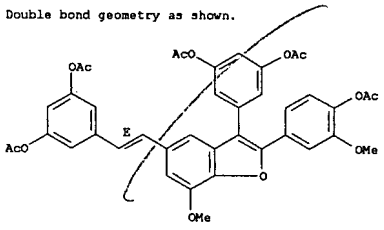
L3 ANSWER 22 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 23 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:649749 CAPLUS
DOCUMENT NUMBER: 134:2622
TITLE: A new stilbene dimer - shegansu B from Belamcanda chinensis
AUTHOR(S): Zhou, Li-Xin; Lin, Mao
CORPORATE SOURCE: Institute of Materia Medica, Chinese Academy of Medical Sciences, Beijing, 100050, Peop. Rep. China
SOURCE: Journal of Asian Natural Products Research (2000), 2(3), 169-175
CODEN: JANRFI; ISSN: 1028-6020
PUBLISHER: Harwood Academic Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A new dimeric stilbene shegansu B was isolated from the ethanolic extract of the roots of Belamcanda chinensis (L.) DC., in addition to the known compds. isorhapontigenin, resveratrol, p-hydroxybenzoic acid, iridin, tectoridin, tectorigenin and daucosterol. The structures were elucidated by means of spectroscopic evidence including 2D-NMR studies.
IT 308320-57-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(dehydrogenation product of shegansu B pentaacetate)
RN 308320-57-2 CAPLUS
CN 1,3-Benzenediol, 5-[2-[4-(acetyloxy)-3-methoxyphenyl]-5-[(1E)-2-[3,5-bis(acetyloxy)phenyl]ethenyl]-7-methoxy-3-benzofuranyl]-, diacetate (9CI) (CA INDEX NAME)

Double bond geometry as shown.

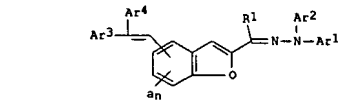


REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 24 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:150492 CAPLUS
DOCUMENT NUMBER: 132:201024
TITLE: Hydrazone compounds, their intermediates, their manufacture, and electrophotographic photoreceptors using the compounds
INVENTOR(S): Kondo, Akihiro; Obata, Takashi; Inoue, Hiroko
PATENT ASSIGNEE(S): Sharp Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000072763	A	20000307	JP 1998-237760	19980824
PRIORITY APPLN. INFO.:			JP 1998-237760	19980824

OTHER SOURCE(S): MARPAT 132:201024
GI



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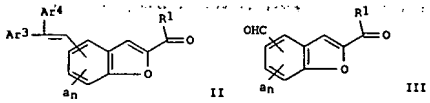
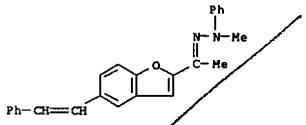


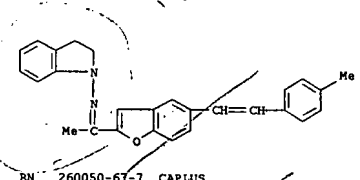
II III

AB Hydrazone compds. I [Ar1-Ar4 = aryl, heterocyclyl, aralkyl, C1-5 (fluoro)alkyl, these groups may be substituted; Ar1 and Ar2 may form a ring by binding together via atom, atomic group, (un)substituted alkylene, (un)substituted vinylene, or divalent linking group; R1 = any group given for Ar1-Ar4; a = (un)substituted C1-3 alkyl, (un)substituted C1-5 fluoroalkyl, (un)substituted C1-5 perfluoroalkyl, C1-3 alkoxy, C1-3 dialkylamino, halo, H; n = 1-3; if n ≥ 2, then a may be different each other or form a ring] and their intermediates II (Ar3, Ar4, R1, a, n= same as above) are claimed. II are prepared by treatment of and formylbenzo[b]furans III (R1, a, n = same as above) with (Ar5O)2POCHAr3Ar4 (Ar3, Ar4 = same as above; Ar5 has no definition). I are prepared by treatment of II with H2NNAr1Ar2 (Ar1, Ar2 = same as above). Also claimed are electrophotog. photoreceptors containing I as charge-transporting agents

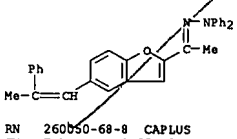
with improved sensitivity and durability.
IT 260050-63-3 260050-64-4 260050-67-7
260050-68-8 260050-69-9
RL: DEV (Device component use); USES (Uses)
(preparation of acylbenzofuran hydrazones as charge-transporting agents for
electrophotog. photoreceptors)
RN 260050-63-3 CAPLUS
CN Ethanone, 1-[5-(2-phenylethenyl)-2-benzofuranyl]-, methylphenylhydrazone (9CI) (CA INDEX NAME)



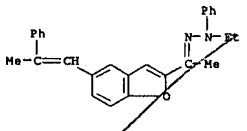
RN 260050-64-4 CAPLUS
CN 1H-Indol-1-amine, 2,3-dihydro-N-[1-[5-[2-(4-methylphenyl)ethenyl]-2-benzofuranyl]ethylidene]- (9CI) (CA INDEX NAME)



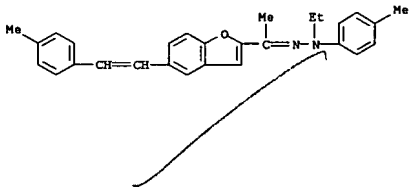
RN 260050-67-7 CAPLUS
CN Ethanone, 1-[5-(2-phenyl-1-propenyl)-2-benzofuranyl]-, diphenylhydrazone (9CI) (CA INDEX NAME)



RN 260050-68-8 CAPLUS
CN Ethanone, 1-[5-(2-phenyl-1-propenyl)-2-benzofuranyl]-, ethylphenylhydrazone (9CI) (CA INDEX NAME)

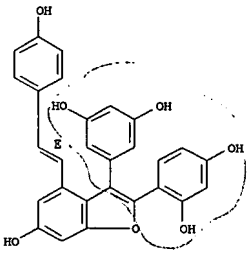


RN 260050-69-9 CAPLUS
CN Ethanone, 1-[5-[2-(4-methylphenyl)ethenyl]-2-benzofuranyl]-, ethyl(4-methylphenyl)hydrazone (9CI) (CA INDEX NAME)



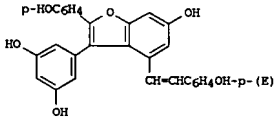
L3 ANSWER 25 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:784617 CAPLUS
DOCUMENT NUMBER: 132:119894
TITLE: Five New Stilbene Dimers from the lianas of Gnetum hainanense
AUTHOR(S): Huang, Kai-Sheng; Wang, Ying-Hong; Li, Rong-Li; Lin, Mao
CORPORATE SOURCE: Institute of Materia Medica, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, 100050, Peop. Rep. China
SOURCE: Journal of Natural Products (2000), 63(1), 86-89
CODEN: JNPRDF; ISSN: 0163-3864
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Five new stilbene dimers, gnetuhainins A-E, were isolated together with resveratrol trans-dehydrodimer, resveratrol, oxyresveratrol, and (-)-ε-viniferin from the lianas of Gnetum hainanense. Their structures and stereochem. were determined on the basis of their chemical and
spectral data. Gnetuhainins A-E are dimers formed by a resveratrol unit and an oxyresveratrol unit and belong to a new type of oligostilbenes polymerized from two different stilbene units.
IT 256415-39-1P, Gnetuhainin B
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(stilbene dimers from the lianas of Gnetum hainanense)
RN 256415-39-1 CAPLUS
CN 1,3-Benzenediol, 4-[3-(3,5-dihydroxyphenyl)-6-hydroxy-4-[(1E)-2-(4-hydroxyphenyl)ethenyl]-2-benzofuranyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 26 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:732202 CAPLUS
DOCUMENT NUMBER: 132:78410
TITLE: Synthesis of Amurensin H, a new resveratrol dimer from the roots of Vitis amurensis
AUTHOR(S): Huang, Kai Sheng; Lin, Mao; Wang, Ying Hong
CORPORATE SOURCE: Institute of Materia Medica, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, 100050, Peop. Rep. China
SOURCE: Chinese Chemical Letters (1999), 10(10), 817-820
CODEN: CCLEE7; ISSN: 1001-8417
PUBLISHER: Chinese Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 132:78410
GI

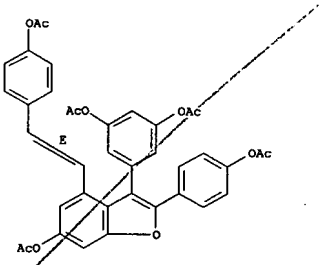


I

AB Amurensin H (I) is a new resveratrol dimer isolated from the roots of Vitis amurensis Rupr. The structure was determined by spectroscopic methods.
I was synthesized from resveratrol via an FeCl3 treated oxidative coupling reaction as the key step.
IT 223558-53-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of amurensin H, a resveratrol dimer, via an oxidative coupling reaction)
RN 223558-53-0 CAPLUS
CN 1,3-Benzenediol, 5-[6-(acetyloxy)-2-[4-(acetyloxy)phenyl]-4-[(1E)-2-[4-(acetyloxy)phenyl]ethenyl]-3-benzofuranyl]-, diacetate (9CI) (CA INDEX NAME)

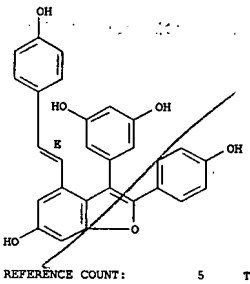
Double bond geometry as shown.

L3 ANSWER 26 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



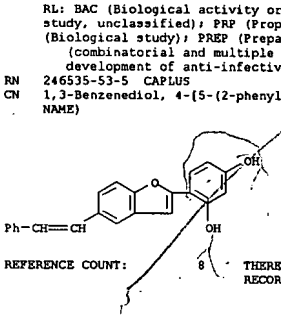
IT 223591-26-2P, Amurensin H
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of amurensin H, a resveratrol dimer, via an oxidative coupling reaction)
RN 223591-26-2 CAPLUS
CN 1,3-Benzenediol, 5-[6-hydroxy-2-(4-hydroxyphenyl)-4-[(1E)-2-(4-hydroxyphenyl)ethenyl]-3-benzofuranyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



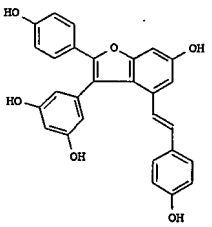
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 . ANSWER 27 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:522803 CAPLUS
DOCUMENT NUMBER: 131:281009
TITLE: Use of combinatorial and multiple parallel synthesis methodologies for the development of anti-infective natural products?
AUTHOR(S): Fecik, Robert A.; Frank, Kristine E.; Gentry, Elmer J.; Mitscher, Lester A.; Shibata, Masaru
CORPORATE SOURCE: IUPAC Commission, Department of Medicinal Chemistry, Kansas University, Lawrence, KS, 66045, USA
SOURCE: Pure and Applied Chemistry (1999), 71(4), 559-564
CODEN: PACHAS; ISSN: 0033-4545
PUBLISHER: Blackwell Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB In an astonishingly short time, combinatorial and multiple parallel synthetic methodologies for the synthesis of small drug-like mols. have transformed the practice of medicinal chemical and are now in general use. Large focused and unfocused arrays of chems. can now be produced and tested rapidly for the purpose of pharmacol. evaluation. Rapid biol. assays capable of performing tens of thousands of assays per wk provide a driving force for the rapid generation of new chemical entities. Novel chemical
strategies adapted to these purposes are represented by numerous research articles. The primary emphasis of much of this work has, however, been focused upon wholly synthetic substances. Whereas natural products can be considered to be nature's combinatorial libraries and continue to provide many important therapeutic substances, they are under represented for the most part in the literature of combinatorial chemical Indeed, there are those who believe that natural products are archaic in the face of these new methods. This paper addresses this question from the vantage point of representing the search for novel chemotherapeutic agents active against bacterial, fungal and viral pathogens by demonstrating that combinatorial and natural products methodologies are not antithetical but can be complimentary.
IT 246535-53-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(combinatorial and multiple parallel synthesis methodologies for the development of anti-infective natural products)
RN 246535-53-5 CAPLUS
CN 1,3-Benzenediol, 4-(5-(2-phenylethenyl)-2-benzofuranyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 28 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:161883 CAPLUS
DOCUMENT NUMBER: 130:309064
TITLE: New oligostilbenes having a benzofuran from Vitis vinifera 'Kyohou'
AUTHOR(S): Ito, Junko; Takaya, Yoshiaki; Oshima, Yoshiteru; Niwa, Masatake
CORPORATE SOURCE: Faculty Pharmacy, Meijo University, Tempaku, Nagoya, 4688503, Japan
SOURCE: Tetrahedron (1999), 55(9), 2529-2544
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



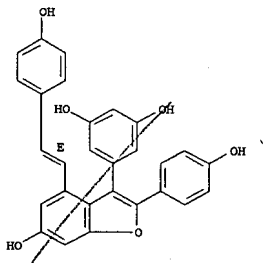
I

AB Three new oligostilbenes having a benzofuran moiety, viniferifuran (e.g. I), (+)-vitisifuran A and (-)-vitisifuran B, were isolated from Vitis vinifera 'Kyohou'. The structures of these oligostilbenes including the absolute configuration were elucidated by spectroscopic and chemical methods.
Furthermore, these were chemical transformed from (+)-ε-viniferin, (+)-vitisin A and (-)-vitisin B, resp., whose absolute configurations are known.
IT 223591-26-2P, Viniferifuran 223591-28-4P, (+)-Vitisifuran A
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); SPN (Synthetic preparation); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(from Vitis vinifera)
RN 223591-26-2 CAPLUS
CN 1,3-Benzenediol, 5-[6-hydroxy-2-(4-hydroxyphenyl)-4-[(1E)-2-(4-hydroxyphenyl)ethenyl]-3-benzofuranyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

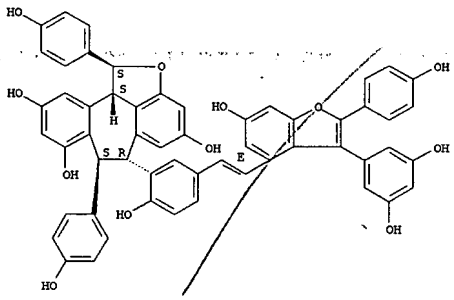
Karen Cheng

L3 ANSWER 28 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 223591-28-4 CAPLUS
CN Benzo[6,7]cyclohepta[1,2,3-cd]benzofuran-4,8,10-triol, 6-[5-[(1E)-2-[3-(3,5-dihydroxyphenyl)-6-hydroxy-2-(4-hydroxyphenyl)-4-benzofuranyl]ethenyl]-2-hydroxyphenyl]-1,6,7,11b-tetrahydro-1,7-bis(4-hydroxyphenyl)-, (1S,6R,7S,11bS)- (9CI) (CA INDEX NAME)

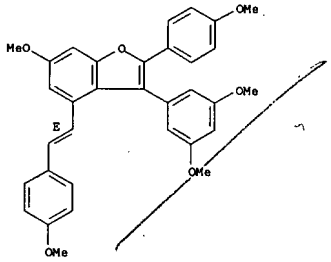
Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



IT 128962-14-1P, Viniferifuran pentamethyl ether 223558-53-0P
223558-58-5P, (+)-Vitisifuran A decamethyl ether
223558-72-3P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)

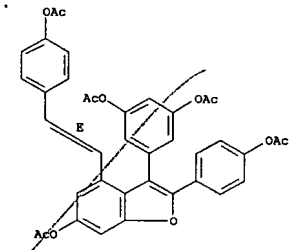
L3 ANSWER 28 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
(prepn. and properties of)
RN 128962-14-1 CAPLUS
CN Benzofuran, 3-(3,5-dimethoxyphenyl)-6-methoxy-2-(4-methoxyphenyl)-4-[(1E)-2-(4-methoxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 223558-53-0 CAPLUS
CN 1,3-Benzenediol, 5-[6-(acetyloxy)-2-[4-(acetyloxy)phenyl]-4-[(1E)-2-[4-(acetyloxy)phenyl]ethenyl]-3-benzofuranyl]-, diacetate (9CI) (CA INDEX NAME)

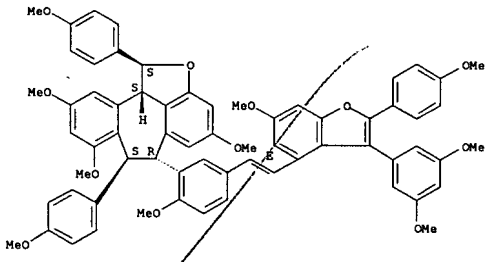
Double bond geometry as shown.



RN 223558-58-5 CAPLUS
CN Benzo[6,7]cyclohepta[1,2,3-cd]benzofuran, 6-[5-[(1E)-2-[3-(3,5-

L3 ANSWER 28 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
dimethoxyphenyl)-6-methoxy-2-(4-methoxyphenyl)-4-benzofuranyl]ethenyl]-2-methoxyphenyl]-1,6,7,11b-tetrahydro-4,8,10-trimethoxy-1,7-bis(4-methoxyphenyl)-, (1S,6R,7S,11bS)- (9CI) (CA INDEX NAME)

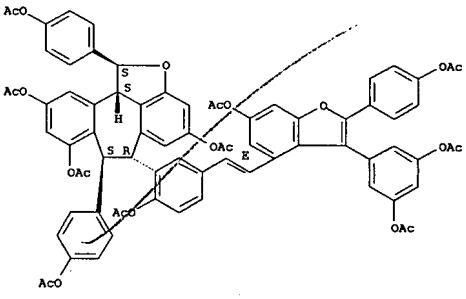
Absolute stereochemistry.
Double bond geometry as shown.



RN 223558-72-3 CAPLUS
CN Benzo[6,7]cyclohepta[1,2,3-cd]benzofuran-4,8,10-triol, 6-[2-(acetyloxy)-5-[(1E)-2-[6-(acetyloxy)-2-[4-(acetyloxy)phenyl]-3-[3,5-bis(acetyloxy)phenyl]-4-benzofuranyl]ethenyl]phenyl]-1,7-bis[4-(acetyloxy)phenyl]-1,6,7,11b-tetrahydro-, triacetate, (1S,6R,7S,11bS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

L3 ANSWER 28 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



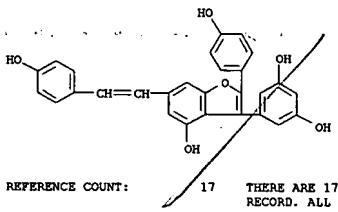
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 29 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:38664 CAPLUS
DOCUMENT NUMBER: 130:234652
TITLE: HPLC-NMR analysis of phenylphenalenones and a stilbene from Anigozanthos flavidus
AUTHOR(S): Holscher, Dirk; Schneider, Bernd
CORPORATE SOURCE: Institut fur Pflanzenbiochemie, Halle, D-06120, Germany
SOURCE: Phytochemistry (1998), Volume Date 1999, 50(1), 155-161
CODEN: PYTCAS; ISSN: 0031-9422
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Exts. from rhizomes and roots of Anigozanthos flavidus were analyzed by HPLC-NMR. Known phenylphenalenones and a stilbene dimer have been identified by means of reference spectra without isolation. New compds. of the phenylphenalenone type, including two dimers, were detected by HPLC-NMR and after isolation their structures were elucidated by conventional anal. methods.

IT 221287-36-1
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence)
(HPLC-NMR anal. of phenylphenalenones and a stilbene from Anigozanthos flavidus)

RN 221287-36-1 CAPLUS
CN 1,3-Benzenediol, 5-[4-hydroxy-2-(4-hydroxyphenyl)-6-[2-(4-hydroxyphenyl)ethenyl]-3-benzofuranyl]- (9CI) (CA INDEX NAME)

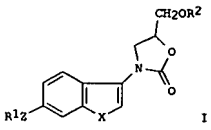


REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 30 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:354011 CAPLUS
DOCUMENT NUMBER: 126:330609
TITLE: Preparation of oxazolidin-2-one derivatives as monoamine oxidase inhibitors
INVENTOR(S): Jegham, Samir; Puech, Frederic; Burnier, Philippe; Berthon, Danielle; Leclerc, Odile
PATENT ASSIGNEE(S): Synthelabo S. A., Fr.; Jegham, Samir; Puech, Frederic; Burnier, Philippe; Berthon, Danielle; Leclerc, Odile
SOURCE: PCT Int. Appl., 54 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9713768	A1	19970417	WO 1996-FR1511	19961008
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG				
FR 2739856	A1	19970418	FR 1995-11902	19951011
FR 2739856	B1	19971114		
FR 2751651	A1	19980130	FR 1996-9361	19960725
FR 2751651	B1	19980904		
FR 2751653	A1	19980130	FR 1996-9362	19960725
FR 2751653	B1	19980904		
AU 9671359	A	19970430	AU 1996-71359	19961008
EP 891358	A1	19990120	EP 1996-932663	19961008
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
JP 11513400	T	19991116	JP 1996-514756	19961008
ZA 9608568	A	19970513	ZA 1996-8568	19961010
US 5969146	A	19991019	US 1998-51539	19980413

PRIORITY APPLN. INFO.: FR 1995-11902 A 19951011; FR 1996-9361 A 19960725; FR 1996-9362 A 19960725; WO 1996-FR1511 W 19961008
OTHER SOURCE(S): CASREACT 126:330609; MARPAT 126:330609
GI



I

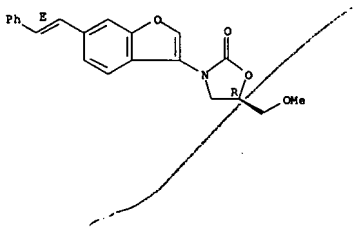
L3 ANSWER 30 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

AB Oxazolidin-2-ones I [R1 = H, alkyl, hydroxyalkyl, fluoroalkyl, hydroxyfluoroalkyl, cyanoalkyl, optionally substituted Ph, optionally substituted phenylmethyl, cyclooxyalkyl optionally substituted by a hydroxy group; R2 = H, Me; X = O, S, NR3; R3 = H, alkyl; Z = O, CH=CH, CH2CH2] were prepared and have Ki as inhibitors of monoamine oxidase A and B 1.2->1000 nM and 0.3->1000 Nm. Thus, (R)-4-methoxymethyl-1,3-dioxolan-2-one (II) was prepared from (R)-2,2-dimethyl-1,3-dioxolane-4-methanol by methylation, ketal hydrolysis, and reaction with (EtO)2CO. Et 6-benzyloxybenzofuran-3-ylcarbamate was prepared fom 2,4-HO(PhCH2O)C6H3CHO in 6 steps and was treated with II to give I [R1 = CH2Ph, R2 = Me, X = Z = O].

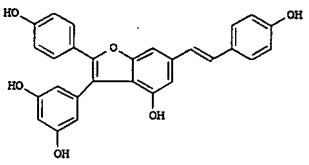
IT 189440-08-2P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of oxazolidinone derivs. as monoamine oxidase inhibitors)

RN 189440-08-2 CAPLUS
CN 2-Oxazolidinone, 5-(methoxymethyl)-3-[6-(2-phenylethenyl)-3-benzofuranyl]-, [R-(E)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.



L3 ANSWER 31 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1996:568834 CAPLUS
DOCUMENT NUMBER: 125:217016
TITLE: A resveratrol dimer from Anigozanthos preissii and Musa cavendishii
AUTHOR(S): Hoelscher, D.; Schneider, B.
CORPORATE SOURCE: Institut fuer Pflanzenbiochemie, Halle, D-06120, Germany
SOURCE: Phytochemistry (1996), 43(2), 471-473
CODEN: PYTCAS; ISSN: 0031-9422
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



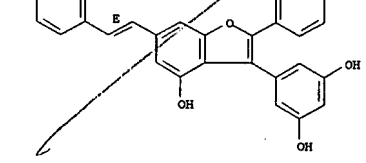
I

AB A novel resveratrol dimer, named anigopreissin A (I), was isolated from root cultures of Anigozanthos preissii and from rhizomes of Musa cavendishii. The structure was established by spectrometric methods, including assignments of 1H and 13C NMR data, as a completely unsatd. benzofuran derivative

IT 181480-72-8P, Anigopreissin A
RL: PRP (Properties); PUR (Purification or recovery); PREP (Preparation)
(from Anigozanthos preissii and Musa cavendishii)

RN 181480-72-8 CAPLUS
CN 1,3-Benzenediol, 5-[4-hydroxy-2-(4-hydroxyphenyl)-6-[(1E)-2-(4-hydroxyphenyl)ethenyl]-3-benzofuranyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L3 ANSWER 31 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

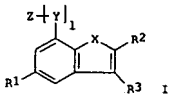
L3 ANSWER 32 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:144850 CAPLUS
DOCUMENT NUMBER: 124:202000
TITLE: Preparation of benzofuran derivatives as inhibitors of bone resorption
INVENTOR(S): Kawai, Yoshio; Yamazaki, Hitoshi; Kayakiri, Natsuko; Yoshihara, Kousei; Yatabe, Takumi; Oku, Teruo
PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 188 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9529907	A1	19951109	WO 1995-JP787	19950421
W: AU, CA, CN, HU, JP, KR, MX, RU, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9522673	A	19951129	AU 1995-22673	19950421
EP 757682	A1	19970212	EP 1995-916027	19950421
EP 757682	B1	20010620		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 09512795	T	19971222	JP 1995-528110	19950421
AT 202346	T	20010715	AT 1995-916027	19950421
ES 2158103	T3	20010901	ES 1995-916027	19950421
ZA 9503469	A	19960117	ZA 1995-3469	19950428
US 5858995	A	19990112	US 1996-727627	19961025

PRIORITY APPLN. INFO.: GB 1994-8577 A 19940429
WO 1995-JP787 W 19950421

OTHER SOURCE(S): MARPAT 124:202000
GI



I

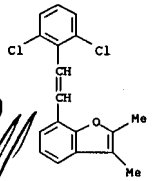
AB Title compds. I [X = O, S; Y = NHCO, OCO, NHSO2, etc.; Z = (substituted) Ph, indolyl, thienyl, etc.; R1, R2, R3 = H, alkyl, amino, etc.; R2R3 = (CH2)4, (CH2)5, etc.; l = 0, 1], useful in treatment of bone diseases such as osteoporosis and hyperparathyroidism, were prepared Reaction of 7-amino-2,3-dimethylbenzo[b]furan with 2,6-dichlorobenzoyl chloride afforded compound I (X = O; Y = NHCO; Z = 2,6-Cl2C6H3; R1 = H; R2 = R3 = Me; l = 1) which showed 100% inhibition against human parathyroid hormone (PTH) at 1x10-5 M in rats.

IT 174185-03-6P

L3 ANSWER 32 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of benzofuran derivs. as inhibitors of bone resorption)

RN 174185-03-6 CAPLUS
CN Benzofuran, 7-[2-(2,6-dichlorophenyl)ethenyl]-2,3-dimethyl- (9CI) (CA INDEX NAME)



$R_1, R_4 = Cl$

R_{10} = alkyl (C_1-C_4)

Z = CH vs. CMe.

103

L3 ANSWER 33 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN

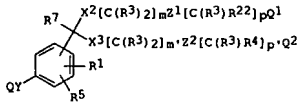
ACCESSION NUMBER: 1995:272891 CAPLUS
DOCUMENT NUMBER: 122:10021
TITLE: Preparation of diaryl 5,6-fusedheterocyclic acids as leukotriene antagonists.
INVENTOR(S): Young, Robert N.; Xiang, Yi Bin; Labelle, Marc; Lau, Cheuk K.; Leblanc, Yves; Dufresne, Claude; Gareau, Yves
PATENT ASSIGNEE(S): Merck Frosst Canada Inc., Can.
SOURCE: Eur. Pat. Appl., 67 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 604114	A1	19940629	EP 1993-310127	19931215
EP 604114	B1	20000503		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
CA 2111372	A1	19940623	CA 1993-2111372	19931214
CA 2111372	C	20070116		
WO 9414815	A1	19940707	WO 1993-CA541	19931215
W: BB, BG, BR, BY, CZ, FI, HU, JP, KR, KZ, LK, LV, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, UZ				
RW: BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
HU 71810	A2	19960228	HU 1995-1842	19931215
HU 222274	B1	20030528		
PL 177967	B1	20000229	PL 1993-309408	19931215
AT 192448	T	20000515	AT 1993-310127	19931215
ES 2145765	T3	20000716	ES 1993-310127	19931215
RU 2154065	C2	20000810	RU 1995-113598	19931215
PT 604114	T	20000929	PT 1993-310127	19931215
SK 282409	B6	20020107	SK 1995-822	19931215
CZ 290829	B6	20021016	CZ 1995-1653	19931215
IL 108050	A	19980615	IL 1993-108050	19931216
AU 9352579	A	19940707	AU 1993-52579	19931221
AU 672837	B2	19961017		
ZA 9309560	A	19940811	ZA 1993-9560	19931221
CN 1094051	A	19941026	CN 1993-119928	19931221
CN 1040213	B	19981014		
FI 9503104	A	19950621	FI 1995-3104	19950621
FI 111368	B1	20030715		
NO 9502495	A	19950822	NO 1995-2495	19950621
NO 313831	B1	20021209		
GR 3033985	T3	20001130	GR 2000-401670	20000719

PRIORITY APPLN. INFO.: US 1992-994869 A 19921222
WO 1993-CA541 W 19931215

OTHER SOURCE(S): MARPAT 122:10021
GI

L3 ANSWER 33 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



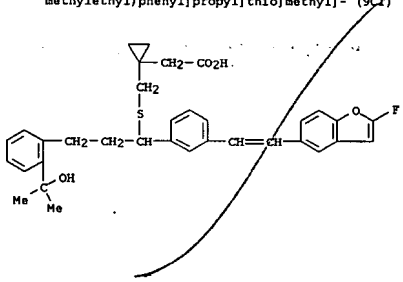
I

AB The title compds. [I; Q = heterocyclyl; Q1 = tetrazolyl, carboxylate ester, carboxylic acid, (un)substituted carboxamide, CN, etc.; Q2 = H, lower alkyl, halogen, Q1, etc.; R1 = H, R2; R2 = alkyl, alkenyl, alkynyl, CF3, etc.; R3 = H, R2; R4 = R3, halogen, NO2, CN, OR3, SR3, N(R3)2, etc.; R5 = H, halogen, NO2, N3, CN, SR2, etc.; R7 = H, lower alkyl; R22 = R4, CHR7OR3, CHR7SR2; X2, X3 = direct bond, O, S, SO, SO2, etc.; Y = CR3:CR3, C.tplbond.C, CO, NR3CO, CONR3, O, S, NR3; Z1, Z2 = (un)substituted heterocyclylene, direct bond; m, m1, p, p1 = 0-8], which are leukotriene antagonists (no data), are prepared Thus, Na 1-[[[1(R)-[3-[2-(3-chlorothieno[3,2-b]pyridin-5-yl)ethenyl]phenyl]-3-[2-(1-hydroxy-1-methylethyl)phenyl]propyl]thio]methyl]cyclopropane acetate was prepared from Me 3-amino-2-thiophenecarboxylate in 19 steps.

IT 159083-20-2
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(claimed compound; leukotriene antagonist)

RN 159083-20-2 CAPLUS

CN Cyclopropaneacetic acid, 1-[[[1-[3-[2-(2-fluoro-5-benzofuranyl)ethenyl]phenyl]-3-[2-(1-hydroxy-1-methylethyl)phenyl]propyl]thio]methyl]- (9CI) (CA INDEX NAME)



L3 ANSWER 34 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

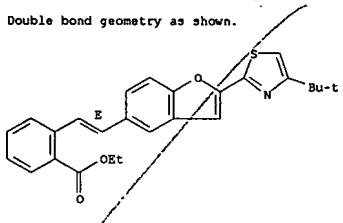
thereof, possessing leukotriene antagonistic activity and useful for treatment(or) prevention of allergy and inflammation (no data), are prepd. 4-Tert-butyl-2-[5-[[2-(chloromethyl)phenyl]methoxy]benzofurane-2-yl]thiazole KCN and Adogen 464 in MePh/H2O were refluxed for 4 h to give the cyanomethyl deriv. which with 40% aq. KOH in carbitol was heated at 110-120° for 1.5 h to give after workup the title compd. 4-tert-butyl-2-[5-[[2-(carboxymethyl)phenyl]methoxy]benzofuran-2-yl]thiazole (II). II inhibited 3H-leukotrien D4 receptor binding with IC50 of 1.38 + 10-4M.

IT 149413-63-8P 149413-64-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as drug)

RN 149413-63-8 CAPLUS

CN Benzoic acid, 2-[2-[2-[4-(1,1-dimethylethyl)-2-thiazolyl]-5-benzofuranyl]ethenyl]-, ethyl ester, (E)- (9CI) (CA INDEX NAME)

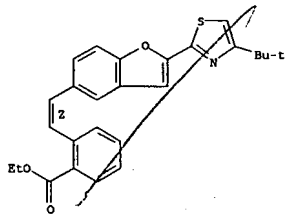
Double bond geometry as shown.



RN 149413-64-9 CAPLUS

CN Benzoic acid, 2-[2-[2-[4-(1,1-dimethylethyl)-2-thiazolyl]-5-benzofuranyl]ethenyl]-, ethyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



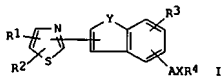
L3 ANSWER 34 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:603401 CAPLUS
DOCUMENT NUMBER: 119:203401
TITLE: Preparation of thiazolylbenzofuran derivatives as drugs
INVENTOR(S): Masaaki, Matsuo; Kazuo, Okumura; Shinji, Shigenaga; Hiroshi, Matsuda
PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 76 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 528337	A1	19930224	EP 1992-113705	19920812
EP 528337	B1	19991020		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 05202040	A	19930810	JP 1992-210308	19920806
ZA 9206026	A	19930310	ZA 1992-6026	19920811
US 5296495	A	19940322	US 1992-929751	19920812
AT 185807	T	19991115	AT 1992-113705	19920812
ES 2137169	T3	19991216	ES 1992-113705	19920812
AU 9221029	A	19930218	AU 1992-21029	19920813
AU 665007	B2	19951214		
CA 2076192	A1	19930217	CA 1992-2076192	19920814
HU 64336	A2	19931228	HU 1992-2656	19920814
CN 1070910	A	19930414	CN 1992-110877	19920815
CN 1033088	B	19961023		
CN 1074444	A	19930721	CN 1993-100384	19930109
CN 1036589	B	19971203		
GR 3032425	T3	20000531	GR 2000-400122	20000119
PRIORITY APPLN. INFO.:			GB 1991-17733 A	19910816
			GB 1992-1057 A	19920117

OTHER SOURCE(S): MARPAT 119:203401

GI



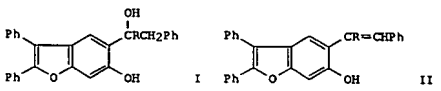
I

AB Title compds. I (R1 = (substituted) alkyl, tricycloalkyl (substituted) aryl, heterocyclyl; R2 = H, halo; R1R2 with the adjacent carbons from cycloalkyl or N-containing substituted heterocyclyl; R3 = H, halo, HO, alkyl, alkoxy; R4 = H, acyl, NC, (substituted) aryl, (substituted) alkyl, etc.; A = alkylene, alkenylene, bond; X = bond, O, S; Y = O, S) and a salt

L3 ANSWER 35 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:427942 CAPLUS
DOCUMENT NUMBER: 119:27942
TITLE: Synthesis and estrogenic activity of some benzofuran derivatives
AUTHOR(S): El Diwani, Hoda I.; Abu-Bakr, Sherifa M.; Hishmat, Orchidee H.; Arbid, Mahmoud S.
CORPORATE SOURCE: Natl. Prod. Chem. Dep., Natl. Res. Cent., Cairo, Egypt
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1993), 32B(4), 494-6
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English

GI



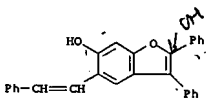
I II

AB New analogs I (R = H, Ph, 4-MeC6H4, CH2Ph) and II (R = H, Ph, CH2Ph) of meso-hexestrol have been synthesized and tested for their estrogenic activity. Alc. I (R = H) possesses significant estrogenic activity as compared to estradiol. Alcs. I (R = Ph, CH2Ph) and dehydrated derivs. II show moderate activity.

IT 148123-15-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and estrogenic activity of)

RN 148123-15-3 CAPLUS

CN 6-Benzofuranol, 2,3-diphenyl-5-(2-phenylethenyl)- (9CI) (CA INDEX NAME)



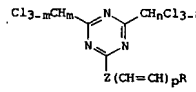
Karen Cheng

10563465

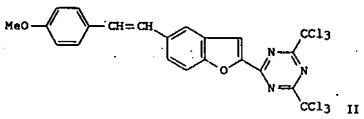
L3 ANSWER 36 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1992:560973 CAPLUS
DOCUMENT NUMBER: 117:160973
TITLE: Photosensitive compositions useful for making presensitized lithographic plates giving visible images
INVENTOR(S): Adachi, Yutaka; Nakai, Hideyuki; Akiyama, Takeo; Sasaki, Mitsuru; Nakamura, Junko
PATENT ASSIGNEE(S): Konica K. K., Japan; Mitsubishi Kasei K. K.
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04069657	A	19920304	JP 1990-182385	19900710
PRIORITY APPLN. INFO.:			JP 1990-182385	19900710

GI



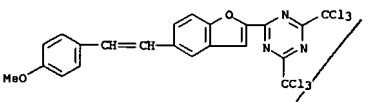
I



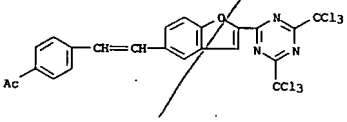
II

AB The title compns. contain a triazine derivative I (R = aromatic homocycle or heterocycle; Z = divalent heterocycle; m, n = 0-2) and a dye whose color is changed by the interaction with the photolysis product of I. The compns. show large development latitude and storage stability and provide highly visible images after exposure. Thus, a pretreated Al substrate was coated with a composition containing a quinonediazide compound, a binder resin, II, and Victoria Pure Blue BOH (dye) to give a presensitized lithog. plate.
IT 143487-35-8 143487-38-1
RL: USES (Uses)
(photosensitive composition containing, with dye, for lithog. plate, giving visible images)
RN 143487-35-8 CAPLUS
CN 1,3,5-Triazine, 2-[5-[2-(4-methoxyphenyl)ethenyl]-2-benzofuranyl]-4,6-

L3 ANSWER 36 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
bis(trichloromethyl)- (9CI) (CA INDEX NAME)



RN 143487-38-1 CAPLUS
CN Ethanone, 1-[4-[2-[2-[4,6-bis(trichloromethyl)-1,3,5-triazin-2-yl]-5-benzofuranyl]ethenyl]phenyl]- (9CI) (CA INDEX NAME)

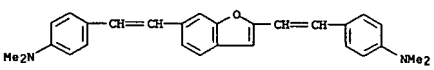


L3 ANSWER 37 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:691145 CAPLUS
DOCUMENT NUMBER: 115:291145
TITLE: Electrophotographic photoreceptor using heterocycle-substituted distyryl derivative as charge-transporting agent
INVENTOR(S): Togashi, Hiroyasu; Yamazaki, Harumasa; Mishima, Masayuki; Sakuma, Tadashi
PATENT ASSIGNEE(S): Kao Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

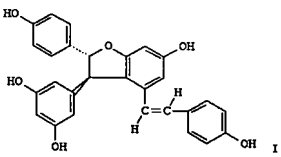
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03135570	A	19910610	JP 1989-242528	19890919
PRIORITY APPLN. INFO.:			JP 1989-242528	19890919

OTHER SOURCE(S): MARPAT 115:291145

AB The photoreceptor comprises an elec. conductive support, a charge-generating layer, and a charge-transporting layer containing RC6H4CH:CHZCH:CHC6H4R [R = H, (substituted) alkyl, alkoxy, amino, halo; Z = divalent 5-membered heterocycle which may be condensed with 1 benzene ring]. The photoreceptor shows good photosensitivity and excellent durability in repeated use. Thus, an Al substrate was coated with a charge-generating layer containing π-type metal-free phthalocyanine and with a charge-transporting layer containing 2,5-bis(p-diphenylaminostyryl)oxazole to give a photoreceptor.
IT 137683-80-8
RL: USES (Uses)
(charge-transporting agent, for electrophotog. photoconductor)
RN 137683-80-8 CAPLUS
CN Benzenamine, 4,4'-(2,6-benzofurandiyldi-2,1-ethenediyl)bis[N,N-dimethyl- (9CI) (CA INDEX NAME)



L3 ANSWER 38 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1990:512491 CAPLUS
DOCUMENT NUMBER: 113:112491
TITLE: (-)-ε-Viniferin and related oligostilbenes from Carex pumila Thunb. (Cyperaceae)
AUTHOR(S): Kurihara, Hideyuki; Kawabata, Jun; Ichikawa, Satoshi; Mizutani, Junya
CORPORATE SOURCE: Fac. Agric., Hokkaido Univ., Sapporo, 060, Japan
SOURCE: Agricultural and Biological Chemistry (1990), 54(4), 1097-9
CODEN: ABCHA6; ISSN: 0002-1369
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 113:112491
GI



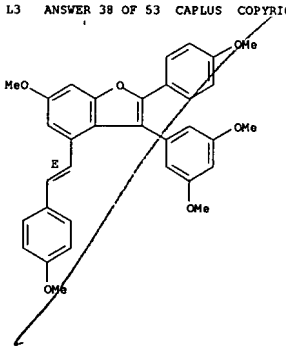
I

AB (-)-ε-Viniferin (I) was isolated from C. pumila and its relative and absolute configurations were determined by chemical methods. The absolute configuration of I was shown to be 7αR, 8aR.
IT 128962-14-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenation of)
RN 128962-14-1 CAPLUS
CN Benzofuran, 3-(3,5-dimethoxyphenyl)-6-methoxy-2-(4-methoxyphenyl)-4-[(1E)-2-(4-methoxyphenyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

Karen Cheng

L3 ANSWER 38 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L3 ANSWER 39 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN

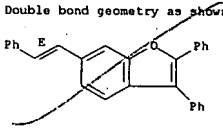
ACCESSION NUMBER: 1985:131423 CAPLUS
DOCUMENT NUMBER: 102:131423
TITLE: Conformational equilibria in trans-1,2-diarylethylenes manifested in their emission in solution. Part VI. Heterocyclic analogs, their triplets and exciplexes
AUTHOR(S): Wismontski-Knittel, T.; Das, P. K.; Fischer, E.
CORPORATE SOURCE: Dep. Structural Chem., Weizmann Inst. Sci., Rehovot, 76100, Israel
SOURCE: Helvetica Chimica Acta (1984), 67(8), 2246-53
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Solns. of heterocyclic analogs of 2-styrylnaphthalene (2-St-N), with benzo[b]thiophene and benzo[b]furan groups replacing the 2-naphthyl group, exhibit emission anomalies similar to those reported for 2-St-N, the most prominent one being a variation of the emission spectra with the excitation wavelength. The exciplexes formed when emission is quenched by N,N-dimethylaniline show a smaller variation of their emission maximum Ground-state rotamers may be responsible for the anomalies. The lifetimes of regular fluorescence in toluene are ≤2 ns, and the equipment did not allow to determine whether or not the decay is mono-exponential. Exciplex lifetimes in toluene are 20-30 ns. The triplets (λmaxT = 500-520 nm) are characterized by short life-times (180-190 ns) and appear to have substantial contributions from twisted configurations.

IT 22798-80-7 22798-91-0
RL: PRP (Properties)
(luminescence of)

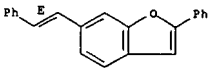
RN 22798-80-7 CAPLUS
CN Benzofuran, 2,3-diphenyl-6-(2-phenylethenyl)-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 22798-91-0 CAPLUS
CN Benzofuran, 2-phenyl-6-(2-phenylethenyl)-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

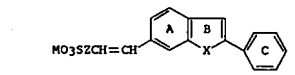


L3 ANSWER 40 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN

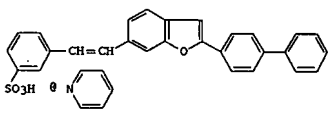
ACCESSION NUMBER: 1981:605430 CAPLUS
DOCUMENT NUMBER: 95:205430
TITLE: Use of sulfo group-containing styrylbenzofurans or -benzothiophenes as fluorescent whiteners
INVENTOR(S): Meyer, Hans Rudolf
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Patentschrift (Switz.), 10 pp.
CODEN: SWXXAS
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CH 621661	B5	19810831	CH 1975-6390	19750516
CH 621661	A3	19810227		
PRIORITY APPLN. INFO.:			CH 1975-6390 A	19750516

GI



I



II

AB Fluorescent whiteners (I; M = H, salt-forming cation; Z = unsubstituted or nonchromophorically-substituted phenylene, 4,4'-biphenylylene, or naphthylene; X = O, S; ring A, B, C are unsubstituted or substituted with nonchromophoric substituents) are prepared and are used to whiten cotton, resin-finished cotton, and polyamide fibers, and polyacrylonitrile [25014-41-9] film, and were used in detergent compns. Thus, a mixture of 2-(p-biphenylyl)-6-methylbenzofuran [58566-30-6] and Na m-benzaldehyde sulfonate anil [58419-46-8] in DMF containing KOCMe3 were heated to give (I, MO3SZ = 3-KO3SC6H4, X = O, ring C is para-substituted with Ph) [58566-31-7] which was converted to the acid chloride [58566-32-8] and heated with pyridine [110-86-1] to give II [58570-89-1].

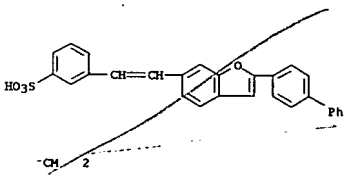
IT 58570-89-1
RL: USES (Uses)
(fluorescent brighteners, for cotton and polyamide fibers, preparation of)

RN 58570-89-1 CAPLUS
CN Benzenesulfonic acid, 3-[2-(2-[1,1'-biphenyl]-4-yl-6-benzofuranyl)ethenyl]-, compd. with pyridine (1:1) (9CI) (CA INDEX NAME)

CM 1

L3 ANSWER 40 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

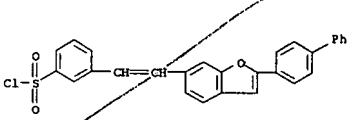
CRN 58570-88-0
CMF C28 H20 O4 S



CRN 110-86-1
CMF C5 H5 N

IT 58566-32-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with pyridine)

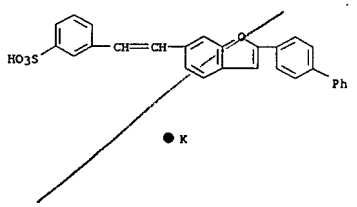
RN 58566-32-8 CAPLUS
CN Benzenesulfonyl chloride, 3-[2-(2-[1,1'-biphenyl]-4-yl-6-benzofuranyl)ethenyl]- (9CI) (CA INDEX NAME)



IT 58566-31-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with thionyl chloride)

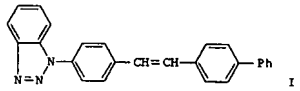
RN 58566-31-7 CAPLUS
CN Benzenesulfonic acid, 3-[2-(2-[1,1'-biphenyl]-4-yl-6-benzofuranyl)ethenyl]-, potassium salt (9CI) (CA INDEX NAME)

L3 ANSWER 40 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L3 ANSWER 41 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1981:532759 CAPLUS
DOCUMENT NUMBER: 95:132759
TITLE: Anil syntheses. Part 24. Preparation of styryl and stilbenyl derivatives of 1H-benzotriazoles
AUTHOR(S): Siegrist, Adolf Emil
CORPORATE SOURCE: Forschungslab., Ciba-Geigy A.-G., Basel, CH-4002, Switz.
SOURCE: Helvetica Chimica Acta (1981), 64(3), 662-80
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 95:132759
GI

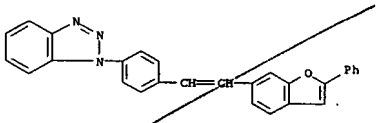


I

AB 1-(p-Tolyl) substituted 1H-benzotriazoles and anils of aromatic aldehydes react in the presence of DMF-KOH to give 1-(styr-4'-yl)-1H-benzotriazoles and 1-(stilben-4'-yl)-1H-benzotriazoles (e. g. I). Similarly, Schiff bases from 4-ClC6H4NH2 and 4-(1'H-benzotriazol-1'-yl)benzaldehydes give with p-tolyl-substituted heterocycles, the heterocyclic substituted stilbenzyl derivs.

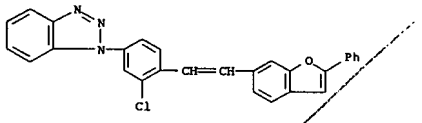
IT 78765-85-2P 78765-86-3P 78765-87-4P
78765-88-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 78765-85-2 CAPLUS
CN 1H-Benzotriazole, 1-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]- (9CI) (CA INDEX NAME)

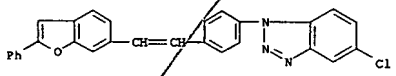


RN 78765-86-3 CAPLUS
CN 1H-Benzotriazole, 1-[3-chloro-4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]- (9CI) (CA INDEX NAME)

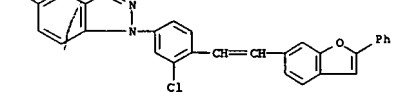
L3 ANSWER 41 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 78765-87-4 CAPLUS
CN 1H-Benzotriazole, 5-chloro-1-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]- (9CI) (CA INDEX NAME)



RN 78765-88-5 CAPLUS
CN 1H-Benzotriazole, 5-chloro-1-[3-chloro-4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]- (9CI) (CA INDEX NAME)



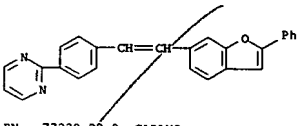
L3 ANSWER 42 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1981:158305 CAPLUS
DOCUMENT NUMBER: 94:158305
TITLE: Anil synthesis. Part 23. Preparation of styryl and stilbenyl derivatives of pyrimidines
AUTHOR(S): Burdeska, Kurt; Fuhrer, Hermann; Kabas, Guglielmo; Siegrist, Adolf Emil
CORPORATE SOURCE: Forschungslab., Ciba-Geigy A.-G., Basel, CH-4002, Switz.
SOURCE: Helvetica Chimica Acta (1981), 64(1), 113-52
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: German

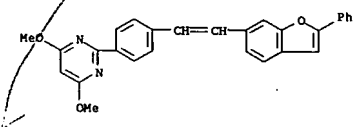
AB 2- And 4-(p-tolyl)-substituted pyrimidines react with anils of hetero-aromatic aldehydes in the presence of DMF and KOH or Me3COK to yield the corresponding 2- and 4-[4''-(heteroaryl)stilben-4'-yl]pyrimidines or 2- and 4-[α-(heteroaryl]-4'-styryl]pyrimidines. Furthermore, the Schiff bases derived from p-chloroaniline and 4-(pyrimidin-2-yl and -4-yl)benzaldehydes give, with methyl- and p-tolyl substituted heterocycles, the the corresponding heterocyclic substituted styryl and stilbenyl derivs. Alkyl-, alkoxy-, or phenyl-substituted pyrimidines also undergo the anil synthesis. Fluorescence spectra of some of the products are shown.

IT 77230-22-9P 77230-23-0P 77230-24-1P
77230-25-2P 77230-26-3P 77230-27-4P
77230-28-5P 77230-29-6P 77230-30-9P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and spectra of)

RN 77230-22-9 CAPLUS
CN Pyrimidine, 2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]- (9CI) (CA INDEX NAME)

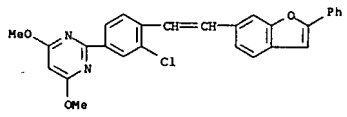


RN 77230-23-0 CAPLUS
CN Pyrimidine, 4,6-dimethoxy-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]- (9CI) (CA INDEX NAME)

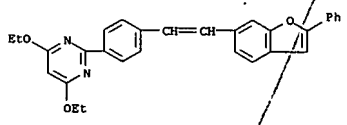


RN 77230-24-1 CAPLUS
CN Pyrimidine, 2-[3-chloro-4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-4,6-dimethoxy- (9CI) (CA INDEX NAME)

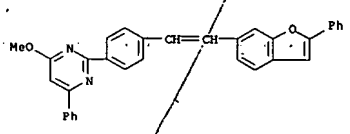
L3 ANSWER 42 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



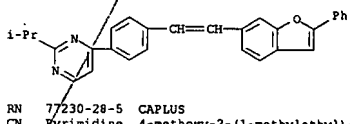
RN 77230-25-2 CAPLUS
CN Pyrimidine, 4,6-diethoxy-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]- (9CI) (CA INDEX NAME)



RN 77230-26-3 CAPLUS
CN Pyrimidine, 4-methoxy-6-phenyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]- (9CI) (CA INDEX NAME)

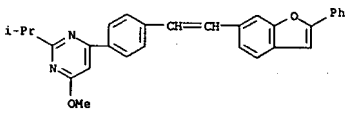


RN 77230-27-4 CAPLUS
CN Pyrimidine, 2-(1-methylethyl)-4-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]- (9CI) (CA INDEX NAME)

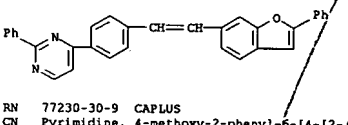


RN 77230-28-5 CAPLUS
CN Pyrimidine, 4-methoxy-2-(1-methylethyl)-6-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]- (9CI) (CA INDEX NAME)

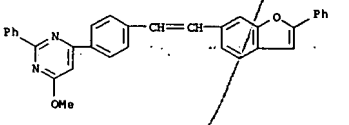
L3 ANSWER 42 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 77230-29-6 CAPLUS
CN Pyrimidine, 2-phenyl-4-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]- (9CI) (CA INDEX NAME)

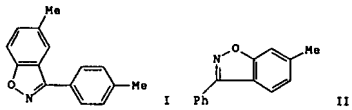


RN 77230-30-9 CAPLUS
CN Pyrimidine, 4-methoxy-2-phenyl-6-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]- (9CI) (CA INDEX NAME)



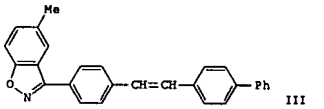
L3 ANSWER 43 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1979:152054 CAPLUS
DOCUMENT NUMBER: 90:152054
TITLE: Anil synthesis. 18. Preparation of styryl derivatives of 3-phenylbenzisoxazole
AUTHOR(S): De Sousa, Bernardo F. S. E.; Siegrist, Adolf Emil
CORPORATE SOURCE: Org.-Chem. Inst., Univ. Fribourg, Fribourg, Switz.
SOURCE: Helvetica Chimica Acta (1978), 61(8), 2904-40
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: German
GI

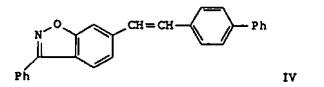


I

II



III



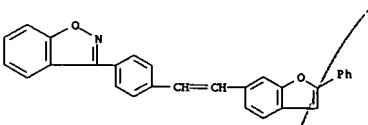
IV

AB 3-P-tolyl-1,2- or -2,1-benzisoxazoles and 6-methyl-3-phenyl-1,2-benzisoxazoles reacted with anils of aromatic aldehydes in DMF containing KOH or KOCMe3 to give 3-(4-stilbenyl)-1,2- or -2,1-benzisoxazoles and 3-phenyl-6-styryl-1,2-benzisoxazoles, resp. Thus, 4-ClC6H4N:CHC6H4Ph-4 reacted with I and II to give III and IV, resp. Likewise, Schiff bases prepared from chloroanilines and 3-(p-formylphenyl)-1,2-benzisoxazoles reacted with Me- and p-tolyl-substituted heterocycles to give the corresponding heterocyclic styryl and stilbenyl derivs. About 200 compds. were prepared

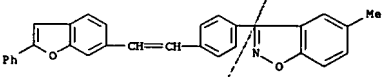
IT 69600-49-3P 69600-50-6P 69600-51-7P
69600-52-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 69600-49-3 CAPLUS
CN 1,2-Benzisoxazole, 3-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]- (9CI) (CA INDEX NAME)

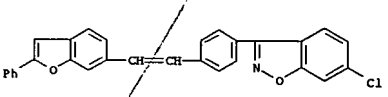
L3 ANSWER 43 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



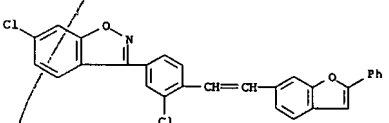
RN 69600-50-6 CAPLUS
CN 1,2-Benzisoxazole, 5-methyl-3-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]- (9CI) (CA INDEX NAME)



RN 69600-51-7 CAPLUS
CN 1,2-Benzisoxazole, 6-chloro-3-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]- (9CI) (CA INDEX NAME)

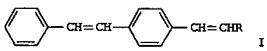


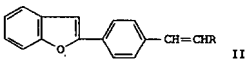
RN 69600-52-9 CAPLUS
CN 1,2-Benzisoxazole, 6-chloro-3-[3-chloro-4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]- (9CI) (CA INDEX NAME)

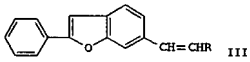


Karen Cheng

L3 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1976:448246 CAPLUS
DOCUMENT NUMBER: 85:48246
TITLE: Anil synthesis. 11. Preparation of 4-styrylstilbene, 4-(benso[b]furan-2-yl)stilbene, and β-(2-phenylbenzo[b]furan-6-yl)styrene derivatives substituted in the 4'-position
AUTHOR(S): De Buman, Alain; Siegrist, Adolf E.
CORPORATE SOURCE: Org.-Chem. Inst., Univ. Freiburg, Fribourg, Switz.
SOURCE: Helvetica Chimica Acta (1974), 57(5), 1352-82
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: German
GI


I


II

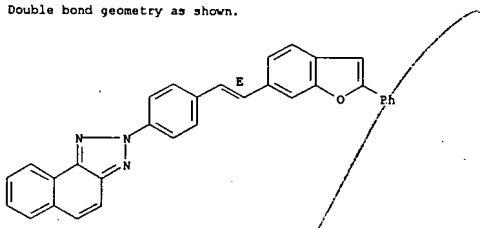

III

AB Stilbene and styrene derivs. I-III (R = heterocyclic-substituted phenyl or phenylbenzofuranyl) (156), one of which is known as a fluorescent whitening agent, were prepared by the anil synthesis, i.e., by reaction of the 4-chloroanils of 4-stilbenecarboxaldehyde [40200-69-9], p-(2-benzofuranyl)benzaldehyde [53348-90-6], and 2-phenyl-6-benzofurancarboxaldehyde [53348-88-2] with heterocyclic-substituted toluenes or 2-aryl-6-methylbenzofurans in the presence of DMF and KOH or KOBu-tert. The absorption and fluorescence λmax of the I-III are given. The anil synthesis produces a trans double bond exclusively, in contrast to the reaction of an aldehyde with a (EtO)2P(O)CH2-substituted aromatic compound, which gives a cis-trans mixture
IT 53348-58-6P 53348-62-2P 53348-69-9P
53348-70-2P 53348-71-3P 53348-75-7P
53348-76-8P 53349-05-6P 53349-17-0P
53349-20-5P 53349-23-8P 53349-24-9P
53349-25-0P 53349-26-1P 53349-27-2P
53349-28-3P 53349-29-4P 53349-30-7P
53349-31-8P 53349-32-9P 53349-38-5P
53349-39-6P 53349-42-1P 53349-45-4P
53349-52-3P 53349-53-4P 53349-54-5P
53349-55-6P 53349-60-3P 53349-61-4P
53349-68-1P 53349-69-2P 53349-70-5P

L3 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
53349-77-2P 53349-78-3P 53349-79-4P
53349-82-9P 53349-85-2P 53349-88-5P
53349-99-8P 53350-00-8P 53350-08-6P
53350-09-7P 53350-10-0P 53350-11-1P
53350-12-2P 53350-13-3P 53350-14-4P
53350-19-9P 53350-20-2P 53350-21-3P
53350-22-4P 53829-78-0P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and absorption and fluorescence spectra of)

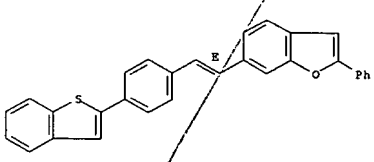
RN 53348-58-6 CAPLUS
CN 2H-Naphtho[1,2-d]triazole, 2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



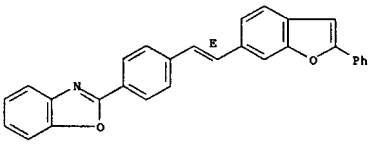
RN 53348-62-2 CAPLUS
CN Benzofuran, 6-[2-(4-benzo[b]thien-2-ylphenyl)ethenyl]-2-phenyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



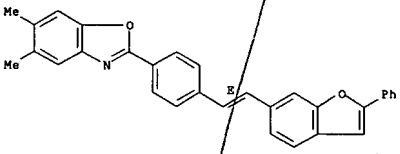
RN 53348-69-9 CAPLUS
CN Benzoxazole, 2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



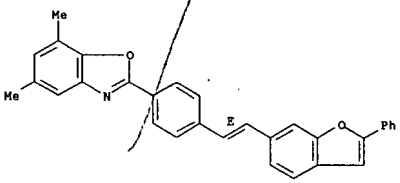
RN 53348-70-2 CAPLUS
CN Benzoxazole, 5,6-dimethyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53348-71-3 CAPLUS
CN Benzoxazole, 5,7-dimethyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

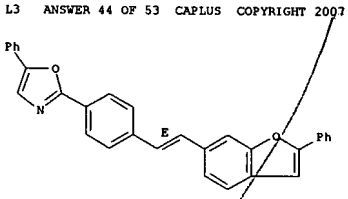
Double bond geometry as shown.



RN 53348-75-7 CAPLUS
CN Oxazole, 5-phenyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

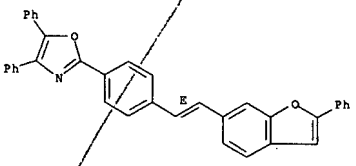
Double bond geometry as shown.

L3 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



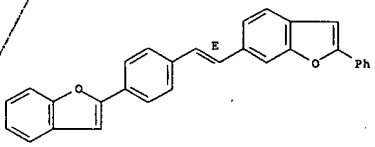
RN 53348-76-8 CAPLUS
CN Oxazole, 4,5-diphenyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-05-6 CAPLUS
CN Benzofuran, 6-[2-[4-(2-benzofuranyl)phenyl]ethenyl]-2-phenyl-, (E)- (9CI) (CA INDEX NAME)

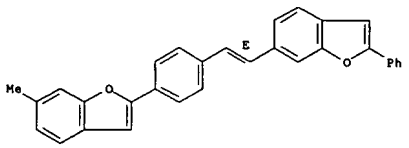
Double bond geometry as shown.



RN 53349-17-0 CAPLUS
CN Benzofuran, 6-[2-[4-(6-methyl-2-benzofuranyl)phenyl]ethenyl]-2-phenyl-, (E)- (9CI) (CA INDEX NAME)

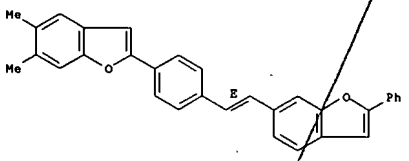
Double bond geometry as shown.

L3 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



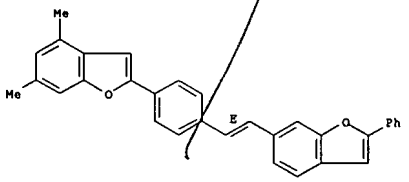
RN 53349-20-5 CAPLUS
CN Benzofuran, 5,6-dimethyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



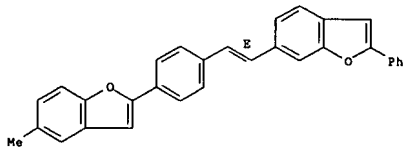
RN 53349-23-8 CAPLUS
CN Benzofuran, 4,6-dimethyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



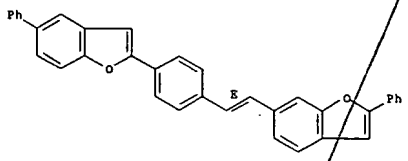
RN 53349-24-9 CAPLUS
CN Benzofuran, 5-methyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

L3 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
Double bond geometry as shown.



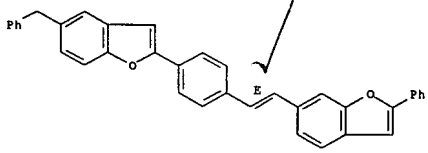
RN 53349-25-0 CAPLUS
CN Benzofuran, 5-phenyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-26-1 CAPLUS
CN Benzofuran, 2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-5-(phenylmethyl)-, (E)- (9CI) (CA INDEX NAME)

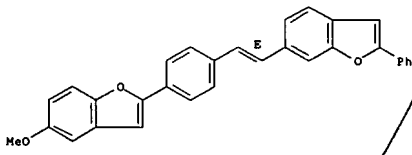
Double bond geometry as shown.



RN 53349-27-2 CAPLUS
CN Benzofuran, 5-methoxy-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

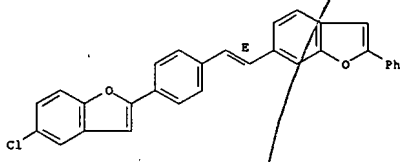
Double bond geometry as shown.

L3 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



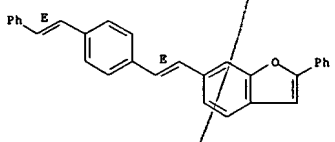
RN 53349-28-3 CAPLUS
CN Benzofuran, 5-chloro-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-29-4 CAPLUS
CN Benzofuran, 2-phenyl-6-[2-[4-(2-phenylethenyl)phenyl]ethenyl]-, (E,E)- (9CI) (CA INDEX NAME)

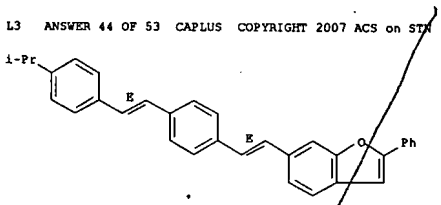
Double bond geometry as shown.



RN 53349-30-7 CAPLUS
CN Benzofuran, 6-[2-[4-[2-[4-(1-methylethyl)phenyl]ethenyl]phenyl]ethenyl]-2-phenyl-, (E,E)- (9CI) (CA INDEX NAME)

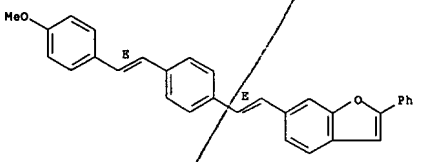
Double bond geometry as shown.

L3 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



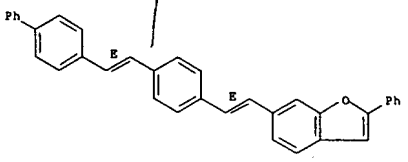
RN 53349-31-8 CAPLUS
CN Benzofuran, 6-[2-[4-[2-(4-methoxyphenyl)ethenyl]phenyl]ethenyl]-2-phenyl-, (E,E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-32-9 CAPLUS
CN Benzofuran, 6-[2-[4-(2-[1,1'-biphenyl]-4-ylethenyl)phenyl]ethenyl]-2-phenyl-, (E,E)- (9CI) (CA INDEX NAME)

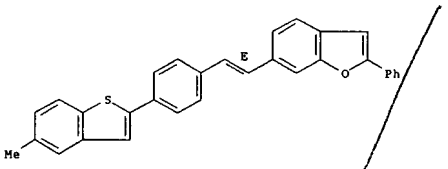
Double bond geometry as shown.



RN 53349-38-5 CAPLUS
CN Benzofuran, 6-[2-[4-(5-methylbenzo[b]thien-2-yl)phenyl]ethenyl]-2-phenyl-, (E)- (9CI) (CA INDEX NAME)

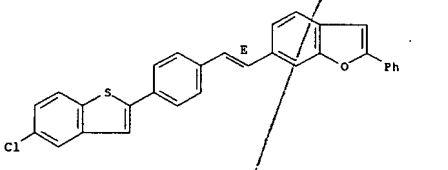
Double bond geometry as shown.

L3 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



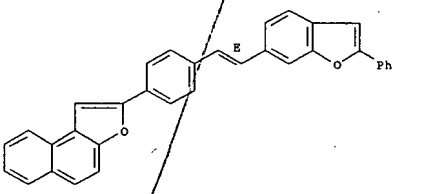
RN 53349-39-6 CAPLUS
CN Benzofuran, 6-[2-[4-(5-chlorobenzo[b]thien-2-yl)phenyl]ethenyl]-2-phenyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-42-1 CAPLUS
CN Naphtho[2,1-b]furan, 2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

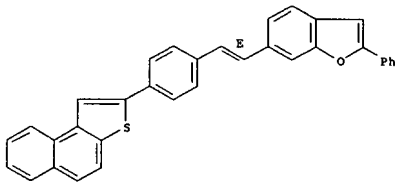
Double bond geometry as shown.



RN 53349-45-4 CAPLUS
CN Naphtho[2,1-b]thiophene, 2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

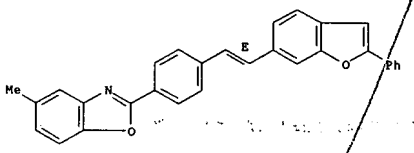
L3 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Double bond geometry as shown.



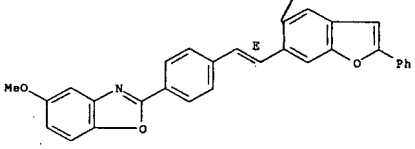
RN 53349-52-3 CAPLUS
CN Benzoxazole, 5-methyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-53-4 CAPLUS
CN Benzoxazole, 5-methoxy-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

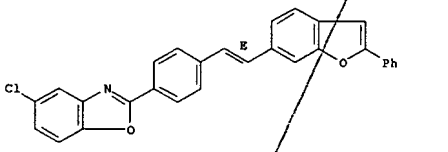
Double bond geometry as shown.



RN 53349-54-5 CAPLUS

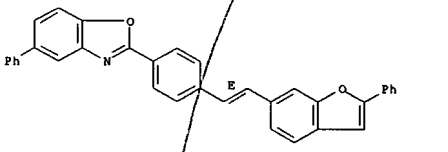
L3 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN Benzoxazole, 5-chloro-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



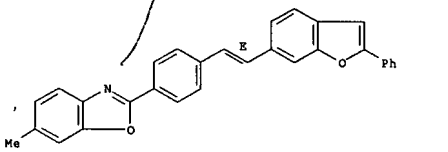
RN 53349-55-6 CAPLUS
CN Benzoxazole, 5-phenyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-60-3 CAPLUS
CN Benzoxazole, 6-methyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

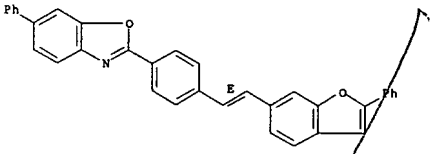
Double bond geometry as shown.



RN 53349-61-4 CAPLUS
CN Benzoxazole, 6-phenyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

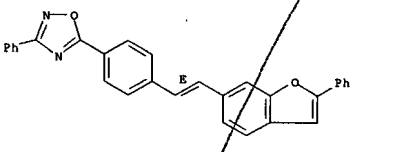
Double bond geometry as shown.

L3 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



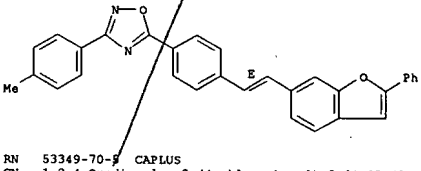
RN 53349-68-1 CAPLUS
CN 1,2,4-Oxadiazole, 3-phenyl-5-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-69-2 CAPLUS
CN 1,2,4-Oxadiazole, 3-(4-methylphenyl)-5-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

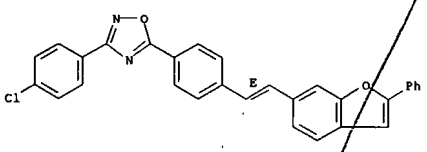
Double bond geometry as shown.



RN 53349-70-5 CAPLUS
CN 1,2,4-Oxadiazole, 3-(4-chlorophenyl)-5-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

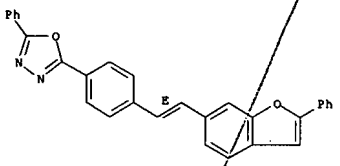
Double bond geometry as shown.

L3 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



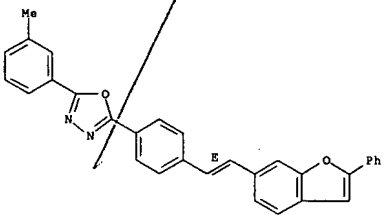
RN 53349-77-2 CAPLUS
CN 1,3,4-Oxadiazole, 2-phenyl-5-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-78-3 CAPLUS
CN 1,3,4-Oxadiazole, 2-(3-methylphenyl)-5-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

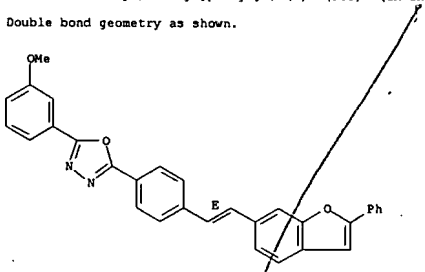
Double bond geometry as shown.



RN 53349-79-4 CAPLUS

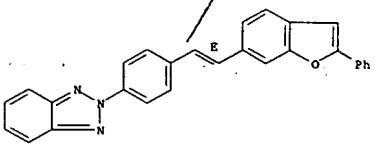
L3 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN 1,3,4-Oxadiazole, 2-(3-methoxyphenyl)-5-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-82-9 CAPLUS
CN 2H-Benzotriazole, 2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

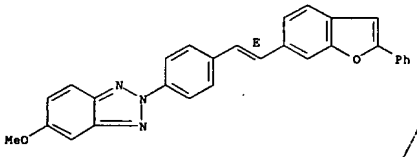
Double bond geometry as shown.



RN 53349-85-2 CAPLUS
CN 2H-Benzotriazole, 5-methoxy-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

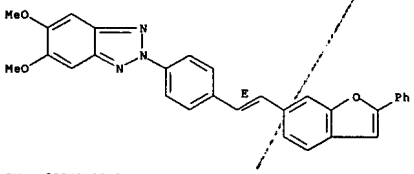
Double bond geometry as shown.

L3 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



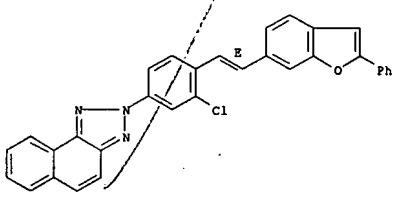
RN 53349-88-5 CAPLUS
CN 2H-Benzotriazole, 5,6-dimethoxy-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-99-8 CAPLUS
CN 2H-Naphtho[1,2-d]triazole, 2-[3-chloro-4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

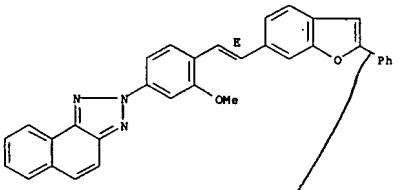
Double bond geometry as shown.



RN 53350-00-8 CAPLUS
CN 2H-Naphtho[1,2-d]triazole, 2-[3-methoxy-4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

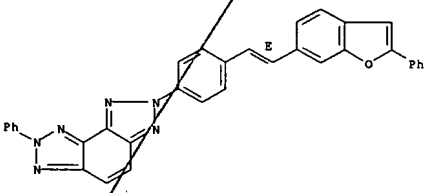
Double bond geometry as shown.

L3 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



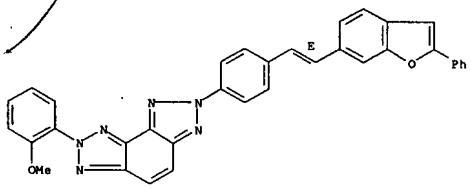
RN 53350-08-6 CAPLUS
CN Benzo[1,2-d:3,4-d']bistriazole, 2,7-dihydro-2-phenyl-7-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53350-09-7 CAPLUS
CN Benzo[1,2-d:3,4-d']bistriazole, 2,7-dihydro-2-(2-methoxyphenyl)-7-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

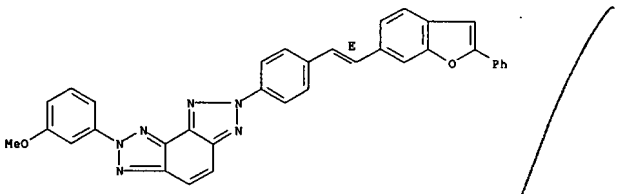
Double bond geometry as shown.



RN 53350-10-0 CAPLUS

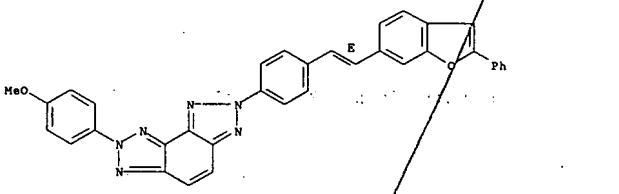
L3 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN Benzo[1,2-d:3,4-d']bistriazole, 2,7-dihydro-2-(3-methoxyphenyl)-7-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



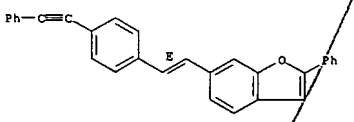
RN 53350-11-1 CAPLUS
CN Benzo[1,2-d:3,4-d']bistriazole, 2,7-dihydro-2-(4-methoxyphenyl)-7-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53350-12-2 CAPLUS
CN Benzofuran, 2-phenyl-6-[2-[4-(phenylethynyl)phenyl]ethenyl]-, (E)- (9CI) (CA INDEX NAME)

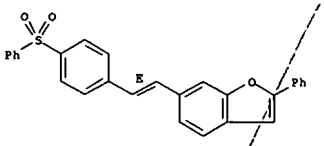
Double bond geometry as shown.



L3 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

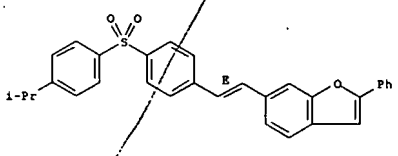
RN 53350-20-2 CAPLUS
CN Benzofuran, 2-phenyl-6-[2-[4-(phenylsulfonyl)phenyl]ethenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



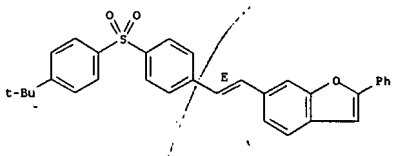
RN 53350-21-3 CAPLUS
CN Benzofuran, 6-[2-[4-[[4-(1-methylethyl)phenyl]sulfonyl]phenyl]ethenyl]-2-phenyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53350-22-4 CAPLUS
CN Benzofuran, 6-[2-[4-[[4-(1,1-dimethylethyl)phenyl]sulfonyl]phenyl]ethenyl]-2-phenyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



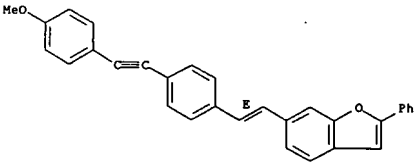
RN 53829-78-0 CAPLUS
CN 1,3,4-Oxadiazole, 2-(1-naphthalenyl)-5-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L3 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

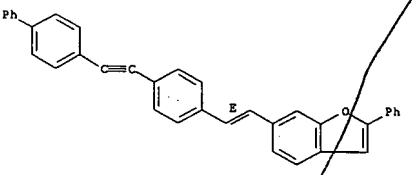
RN 53350-13-3 CAPLUS
CN Benzofuran, 6-[2-[4-[(4-methoxyphenyl)ethynyl]phenyl]ethenyl]-2-phenyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



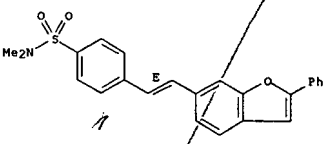
RN 53350-14-4 CAPLUS
CN Benzofuran, 6-[2-[4-([1,1'-biphenyl]-4-ylethynyl)phenyl]ethenyl]-2-phenyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

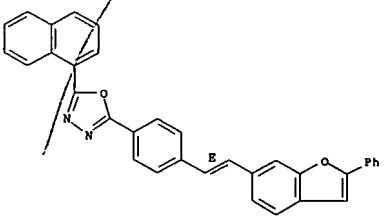


RN 53350-19-9 CAPLUS
CN Benzenesulfonamide, N,N-dimethyl-4-[2-(2-phenyl-6-benzofuranyl)ethenyl]-, (E)- (9CI) (CA INDEX NAME)

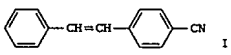
Double bond geometry as shown.



L3 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L3 ANSWER 45 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1976:405563 CAPLUS
DOCUMENT NUMBER: 85:5563
TITLE: Anil synthesis. Part 13. On the preparation of cyano-substituted styryl and stilbenyl compounds
AUTHOR(S): Coviello, Vincenzo; Siegrist, Adolf E.
CORPORATE SOURCE: Org.-Chem. Inst., Univ. Freiburg, Fribourg, Switz.
SOURCE: Helvetica Chimica Acta (1976), 59(3), 819-34
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: German
GI

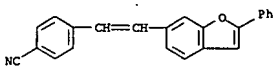


I

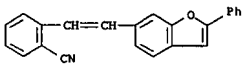
AB Schiff bases of aromatic carbocyclic or heterocyclic aldehydes react with 1 mole-equivalent 2(or 4)-MeC6H4CN in presence of DMF and NaOMe at room temperature to give stilbenyl or styryl compds., e.g., I. Some of the materials are optical brighteners for macromol. compds. Fluorescence spectra for several are given.

IT 57045-53-1P 57045-54-2P 59425-97-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 57045-53-1 CAPLUS
CN Benzonitrile, 4-[2-(2-phenyl-6-benzofuranyl)ethenyl]- (9CI) (CA INDEX NAME)

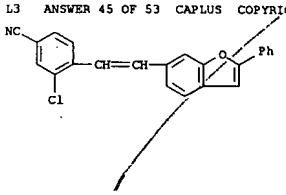


RN 57045-54-2 CAPLUS
CN Benzonitrile, 2-[2-(2-phenyl-6-benzofuranyl)ethenyl]- (9CI) (CA INDEX NAME)



RN 59425-97-7 CAPLUS
CN Benzonitrile, 3-chloro-4-[2-(2-phenyl-6-benzofuranyl)ethenyl]- (9CI) (CA INDEX NAME)

L3 ANSWER 45 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L3 ANSWER 46 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1976:123420 CAPLUS
DOCUMENT NUMBER: 84:123420
TITLE: Sulfo group-containing heterocycles
INVENTOR(S): Meyer, Hans Rudolf
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Ger. Offen., 65 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

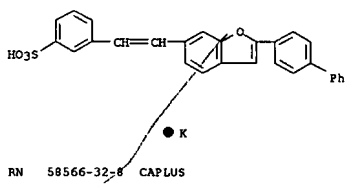
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2525683	A1	19760102	DE 1975-2525683	19750609
CH 592704	A5	19771115	CH 1974-8033	19740612
US 4013642	A	19770322	US 1975-585739	19750610
JP 51011979	A	19760130	JP 1975-71422	19750612
US 4177347	A	19791204	US 1978-908600	19780523
US 4276188	A	19810630	US 1979-62822	19790801
PRIORITY APPLN. INFO.:			CH 1974-8031	A 19740612
			CH 1974-8033	A 19740612
			CH 1974-8032	A 19740612
			CH 1974-8038	A 19740612
			US 1975-585540	A1 19750610
			US 1975-585542	A1 19750610
			US 1976-749193	A1 19761209
			US 1976-749643	A1 19761210
			US 1977-860819	A1 19771215

GI For diagram(s), see printed CA Issue.

AB Fluorescent whiteners (I, R = H, SO3M, C6H4SO3M; M = Na, K, amine; n = 0, 1) were prepared and whitened cotton and polyamide fibers and polyacrylonitrile [25014-41-9] films. Thus, KOCMe3 was added to a solution of 2-p-tolylbenzofuran [25664-48-6] and 2-NaO3SC6H4CH:NPh [40567-08-6] in DMF, the solution held at room temperature for 0.5 hr by external cooling, heated at 60° for 0.5 hr, heated at 80° for 1 hr, cooled, and H2O added to give the Na-K salt of I(R = 2-SO3M, n = 1, M = H) [58566-39-5].

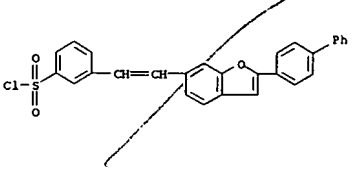
IT 58566-31-7P 58566-32-8P
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)

RN 58566-31-7 CAPLUS
CN Benzenesulfonic acid, 3-[2-(2-[1,1'-biphenyl]-4-yl-6-benzofuranyl)ethenyl]-, potassium salt (9CI) (CA INDEX NAME)



RN 58566-32-8 CAPLUS

L3 ANSWER 46 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN Benzenesulfonyl chloride, 3-[2-(2-[1,1'-biphenyl]-4-yl-6-benzofuranyl)ethenyl]- (9CI) (CA INDEX NAME)



Karen Cheng

L3 ANSWER 47 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1975:578605 CAPLUS
DOCUMENT NUMBER: 83:178605
TITLE: Cyano-substituted stilbene compounds
INVENTOR(S): Siegrist, Adolf E.; Coviello, Vincenzo
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Ger. Offen., 34 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

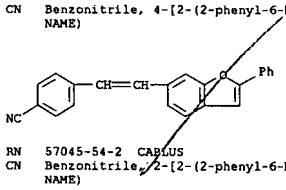
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2453355	A1	19750522	DE 1974-2453355	19741111
CH 581610	A5	19761115	CH 1973-16247	19731119
US 4008224	A	19770215	US 1974-519164	19741030
GB 1484038	A	19770824	GB 1974-48976	19741112
FR 2251537	A1	19750613	FR 1974-37447	19741113
CA 1047511	A1	19790130	CA 1974-213820	19741115
BE 822272	A1	19750520	BE 1974-150572	19741118
JP 50084632	A	19750708	JP 1974-132606	19741118
NL 7415059	A	19750521	NL 1974-15059	19741119
US 4217301	A	19800812	US 1978-887108	19780316

PRIORITY APPLN. INFO.: CH 1973-16247 A 19731119
CH 1973-16246 A 19731119
US 1974-519164 A3 19741030
US 1976-723691 A3 19760916

AB 2,4-RR1C6H3CH:CHR2 (I; R = H, Cl, CN; R = H, CN; R2 = biphenylyl, naphthyl, PhCH:CHC6H4, dibenzofuranyl, benzofuranyl) were prepared by the reaction of R2CH:NC6H4Cl-4 with a tolunitrile and NaOMe. Thus, 4-ClC6H4N:CHC6H4Ph-4 reacted with 4-MeC6H4CN and NaOMe in DMF at 20-5° to give 90.8% 4-NCC6H4CH:CHC6H4Ph-4. I were useful as brighteners for polyester or polypropylene fibers.

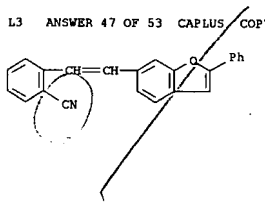
IT 57045-53-1P 57045-54-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 57045-53-1 CAPLUS
CN Benzonitrile, 4-[2-(2-phenyl-6-benzofuranyl)ethenyl]- (9CI) (CA INDEX NAME)



RN 57045-54-2 CAPLUS
CN Benzonitrile, 2-[2-(2-phenyl-6-benzofuranyl)ethenyl]- (9CI) (CA INDEX NAME)

L3 ANSWER 47 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L3 ANSWER 48 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1975:461624 CAPLUS
DOCUMENT NUMBER: 83:61624
TITLE: Anil syntheses. 11. Preparation of 4'-substituted 4-styrylstilbene, 4-(benzo[b]furan-2-yl)stilbene, and β-(2-phenylbenzo[b]furan-6-yl)styrene derivatives
AUTHOR(S): De Buman, Alain; Siegrist, Adolf E.
CORPORATE SOURCE: Org. Chem. Inst., Univ. Freiburg, Fribourg, Switz.
SOURCE: Helvetica Chimica Acta (1974), 57(5), 1352-82
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: German

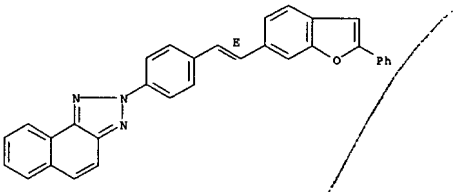
AB The Schiff bases of 4-stilbenecarboxaldehyde [40200-69-9], 2-(p-formylphenyl)benzo[b]furan [53348-90-6] and 2-phenyl-6-formylbenzo[b]furan and p-chloroaniline [106-47-8] were condensed with p-tolyl or methyl substituted aromatic heterocyclic or carbocyclic compds. in DMF in the presence of KOH or KOCMe3 to give 156 4'-substituted 4-styrylstilbene, 4-(benzo[b]furan-6-yl)stilbene, and β-(2-phenylbenzo[b]furan-6-yl)styrene derivs., all in the trans form. The absorption maximum and fluorescene maximum of the benzo[b]furan based compds. were compared with the corresponding stilbene derivs.

IT 53348-58-6 53348-62-2 53348-69-9
53348-70-2 53348-71-3 53348-75-7
53348-76-8 53349-05-6 53349-17-0
53349-20-5 53349-23-8 53349-24-9
53349-25-0 53349-26-1 53349-27-2
53349-28-3 53349-29-4 53349-30-7
53349-31-8 53349-32-9 53349-38-5
53349-39-6 53349-42-1 53349-45-4
53349-52-3 53349-53-4 53349-54-5
53349-55-6 53349-60-3 53349-61-4
53349-68-1 53349-69-2 53349-70-5
53349-77-2 53349-78-3 53349-79-4
53349-82-9 53349-85-2 53349-88-5
53349-99-8 53350-00-8 53350-08-6
53350-09-7 53350-10-0 53350-11-1
53350-12-2 53350-13-3 53350-14-4
53350-19-9 53350-20-2 53350-21-3
53350-22-4 53829-78-0
RL: PRP (Properties)
(fluorescence and uv spectra of)

RN 53348-58-6 CAPLUS
CN 2H-Naphtho[1,2-d]triazole, 2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

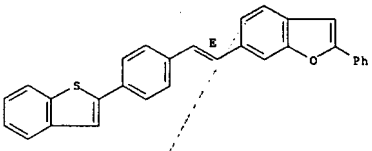
Double bond geometry as shown.

L3 ANSWER 48 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



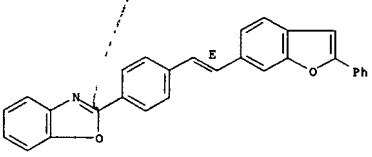
RN 53348-62-2 CAPLUS
CN Benzofuran, 6-[2-(4-benzo[b]thien-2-ylphenyl)ethenyl]-2-phenyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53348-69-9 CAPLUS
CN Benzoxazole, 2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

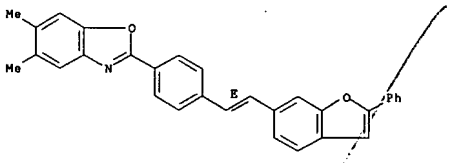
Double bond geometry as shown.



RN 53348-70-2 CAPLUS
CN Benzoxazole, 5,6-dimethyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

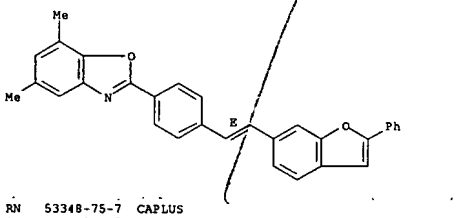
Double bond geometry as shown.

L3 ANSWER 48 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



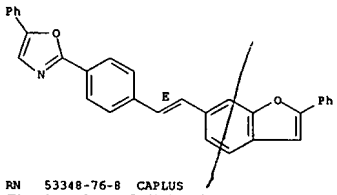
RN 53348-71-3 CAPLUS
CN Benzoxazole, 5,7-dimethyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53348-75-7 CAPLUS
CN Oxazole, 5-phenyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

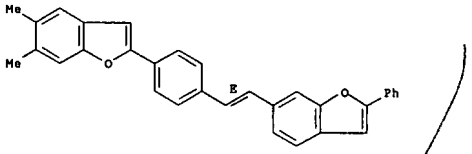
Double bond geometry as shown.



RN 53348-76-8 CAPLUS
CN Oxazole, 4,5-diphenyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

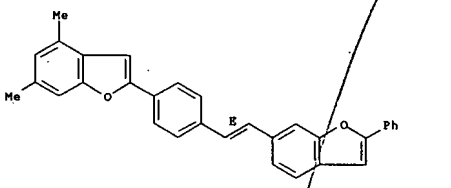
L3 ANSWER 48 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Double bond geometry as shown.



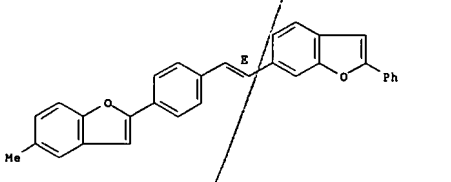
RN 53349-23-8 CAPLUS
CN Benzofuran, 4,6-dimethyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-24-9 CAPLUS
CN Benzofuran, 5-methyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

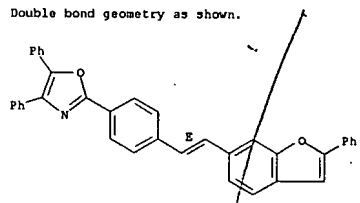


RN 53349-25-0 CAPLUS
CN Benzofuran, 5-phenyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

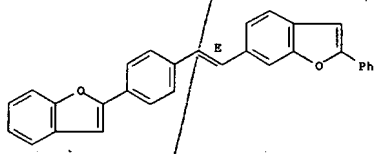
L3 ANSWER 48 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Double bond geometry as shown.



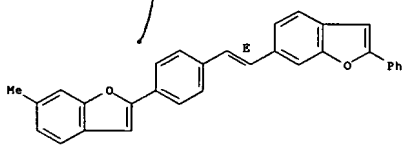
RN 53349-05-6 CAPLUS
CN Benzofuran, 6-[2-[4-(2-benzofuranyl)phenyl]ethenyl]-2-phenyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



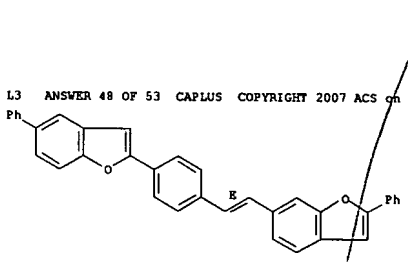
RN 53349-17-0 CAPLUS
CN Benzofuran, 6-[2-[4-(6-methyl-2-benzofuranyl)phenyl]ethenyl]-2-phenyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



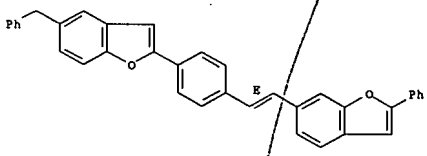
RN 53349-20-5 CAPLUS
CN Benzofuran, 5,6-dimethyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

L3 ANSWER 48 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



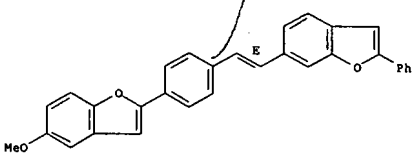
RN 53349-26-1 CAPLUS
CN Benzofuran, 2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-5-(phenylmethyl)-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-27-2 CAPLUS
CN Benzofuran, 5-methoxy-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-28-3 CAPLUS
CN Benzofuran, 5-chloro-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

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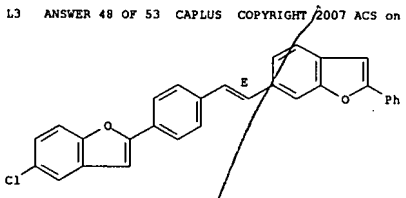
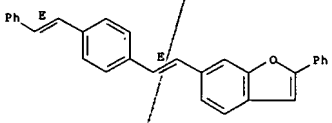
L3 ANSWER 48 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



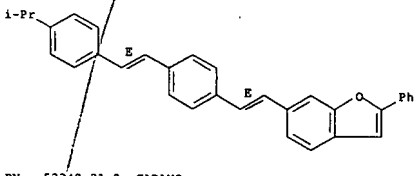
RN 53349-29-4 CAPLUS
CN Benzofuran, 2-phenyl-6-[2-[4-(2-phenylethenyl)phenyl]ethenyl]-, (E,E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-30-7 CAPLUS
CN Benzofuran, 6-[2-[4-[2-[4-(1-methylethyl)phenyl]ethenyl]phenyl]ethenyl]-2-phenyl-, (E,E)- (9CI) (CA INDEX NAME)

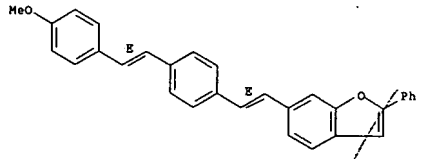
Double bond geometry as shown.



RN 53349-31-8 CAPLUS
CN Benzofuran, 6-[2-[4-[2-(4-methoxyphenyl)ethenyl]phenyl]ethenyl]-2-phenyl-, (E,E)- (9CI) (CA INDEX NAME)

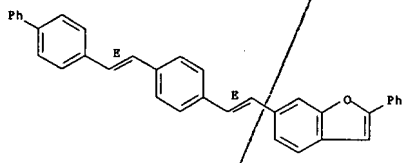
Double bond geometry as shown.

L3 ANSWER 48 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



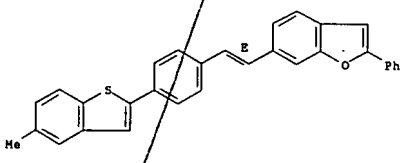
RN 53349-32-9 CAPLUS
CN Benzofuran, 6-[2-[4-(2-[1,1'-biphenyl]-4-ylethenyl)phenyl]ethenyl]-2-phenyl-, (E,E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-38-5 CAPLUS
CN Benzofuran, 6-[2-[4-(5-methylbenzo[b]thien-2-yl)phenyl]ethenyl]-2-phenyl-, (E)- (9CI) (CA INDEX NAME)

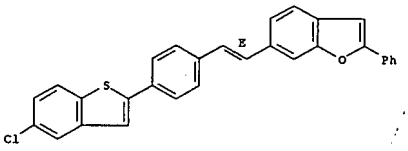
Double bond geometry as shown.



RN 53349-39-6 CAPLUS
CN Benzofuran, 6-[2-[4-(5-chlorobenzo[b]thien-2-yl)phenyl]ethenyl]-2-phenyl-, (E)- (9CI) (CA INDEX NAME)

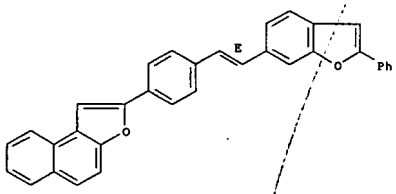
Double bond geometry as shown.

L3 ANSWER 48 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



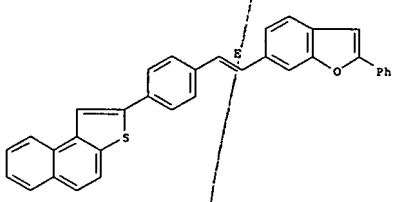
RN 53349-42-1 CAPLUS
CN Naphtho[2,1-b]furan, 2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-45-4 CAPLUS
CN Naphtho[2,1-b]thiophene, 2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

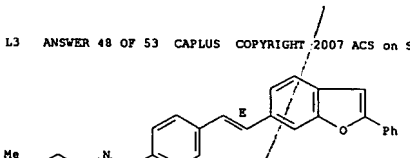
Double bond geometry as shown.



RN 53349-52-3 CAPLUS
CN Benzoxazole, 5-methyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

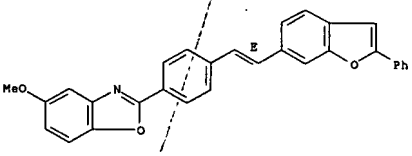
Double bond geometry as shown.

L3 ANSWER 48 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



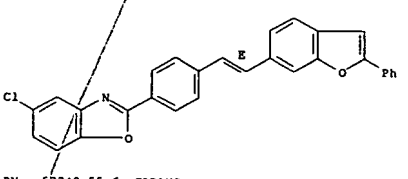
RN 53349-53-4 CAPLUS
CN Benzoxazole, 5-methoxy-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-54-5 CAPLUS
CN Benzoxazole, 5-chloro-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-55-6 CAPLUS
CN Benzoxazole, 5-phenyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

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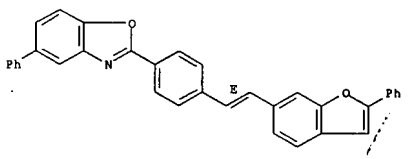
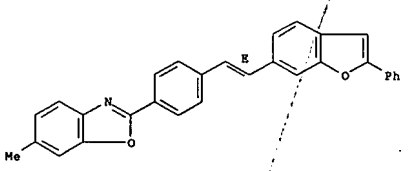
L3 ANSWER 48 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



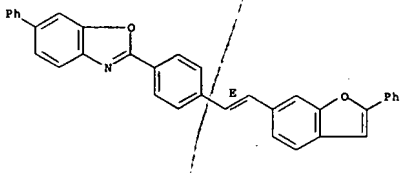
RN 53349-60-3 CAPLUS
CN Benzoxazole, 6-methyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-61-4 CAPLUS
CN Benzoxazole, 6-phenyl-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

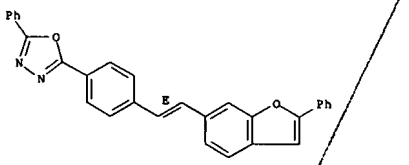
Double bond geometry as shown.



RN 53349-68-1 CAPLUS
CN 1,2,4-Oxadiazole, 3-phenyl-5-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

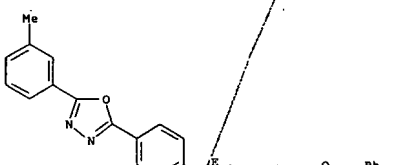
Double bond geometry as shown.

L3 ANSWER 48 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



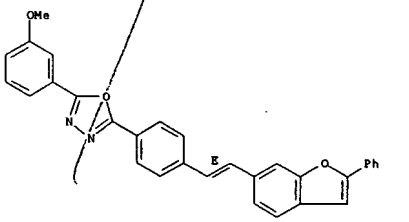
RN 53349-78-3 CAPLUS
CN 1,3,4-Oxadiazole, 2-(3-methylphenyl)-5-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

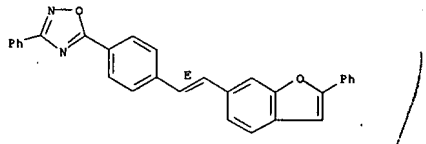


RN 53349-79-4 CAPLUS
CN 1,3,4-Oxadiazole, 2-(3-methoxyphenyl)-5-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

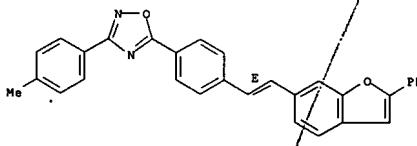


L3 ANSWER 48 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



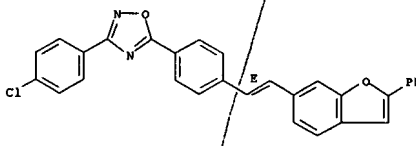
RN 53349-69-2 CAPLUS
CN 1,2,4-Oxadiazole, 3-(4-methylphenyl)-5-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-70-5 CAPLUS
CN 1,2,4-Oxadiazole, 3-(4-chlorophenyl)-5-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



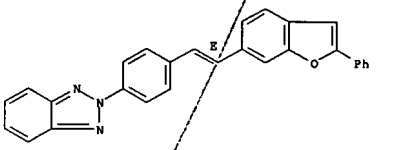
RN 53349-77-2 CAPLUS
CN 1,3,4-Oxadiazole, 2-phenyl-5-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L3 ANSWER 48 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

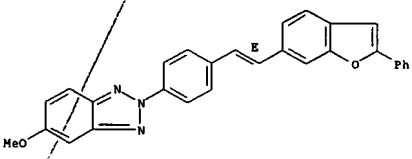
RN 53349-82-9 CAPLUS
CN 2H-Benzotriazole, 2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



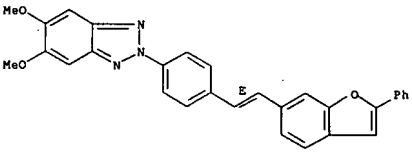
RN 53349-85-2 CAPLUS
CN 2H-Benzotriazole, 5-methoxy-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-88-5 CAPLUS
CN 2H-Benzotriazole, 5,6-dimethoxy-2-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53349-99-8 CAPLUS
CN 2H-Naphtho[1,2-d]triazole, 2-[3-chloro-4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

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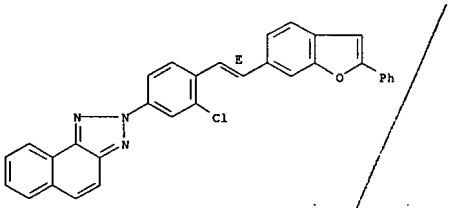
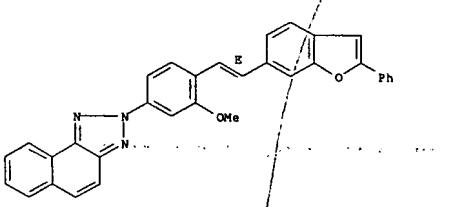
L3 ANSWER 48 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
Double bond geometry as shown.



RN 53350-00-8 CAPLUS
CN 2H-Naphtho[1,2-d]triazole, 2-[3-methoxy-4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

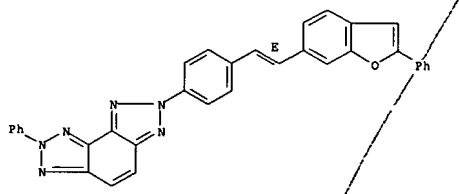
Double bond geometry as shown.



RN 53350-08-6 CAPLUS
CN Benzo[1,2-d:3,4-d']bistriazole, 2,7-dihydro-2-phenyl-7-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

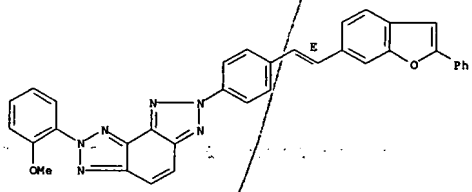
Double bond geometry as shown.

L3 ANSWER 48 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 53350-09-7 CAPLUS
CN Benzo[1,2-d:3,4-d']bistriazole, 2,7-dihydro-2-(2-methoxyphenyl)-7-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

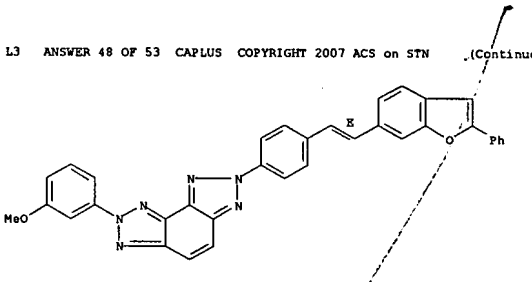
Double bond geometry as shown.



RN 53350-10-0 CAPLUS
CN Benzo[1,2-d:3,4-d']bistriazole, 2,7-dihydro-2-(3-methoxyphenyl)-7-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

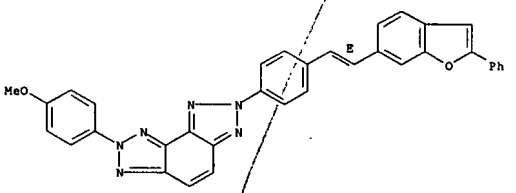
Double bond geometry as shown.

L3 ANSWER 48 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



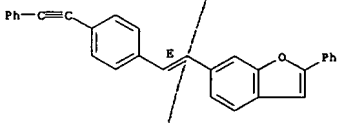
RN 53350-11-1 CAPLUS
CN Benzo[1,2-d:3,4-d']bistriazole, 2,7-dihydro-2-(4-methoxyphenyl)-7-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53350-12-2 CAPLUS
CN Benzofuran, 2-phenyl-6-[2-[4-(phenylethynyl)phenyl]ethenyl]-, (E)- (9CI) (CA INDEX NAME)

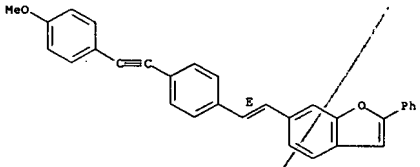
Double bond geometry as shown.



RN 53350-13-3 CAPLUS
CN Benzofuran, 6-[2-[4-[(4-methoxyphenyl)ethynyl]phenyl]ethenyl]-2-phenyl-, (E)- (9CI) (CA INDEX NAME)

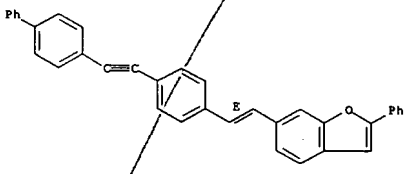
Double bond geometry as shown.

L3 ANSWER 48 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



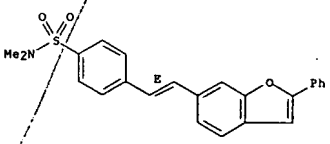
RN 53350-14-4 CAPLUS
CN Benzofuran, 6-[2-[4-([1,1'-biphenyl]-4-ylethynyl)phenyl]ethenyl]-2-phenyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53350-19-9 CAPLUS
CN Benzenesulfonamide, N,N-dimethyl-4-[2-(2-phenyl-6-benzofuranyl)ethenyl]-, (E)- (9CI) (CA INDEX NAME)

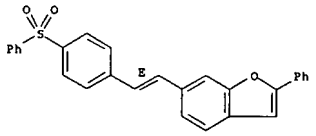
Double bond geometry as shown.



RN 53350-20-2 CAPLUS
CN Benzofuran, 2-phenyl-6-[2-[4-(phenylsulfonyl)phenyl]ethenyl]-, (E)- (9CI) (CA INDEX NAME)

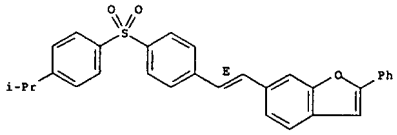
Double bond geometry as shown.

L3 ANSWER 48 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



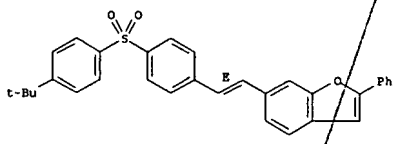
RN 53350-21-3 CAPLUS
CN Benzofuran, 6-[2-[4-[[4-(1-methylethyl)phenyl]sulfonyl]phenyl]ethenyl]-2-phenyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53350-22-4 CAPLUS
CN Benzofuran, 6-[2-[4-[[4-(1,1-dimethylethyl)phenyl]sulfonyl]phenyl]ethenyl]-2-phenyl-, (E)- (9CI) (CA INDEX NAME)

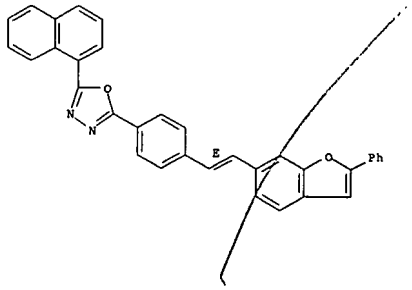
Double bond geometry as shown.



RN 53829-78-0 CAPLUS
CN 1,3,4-Oxadiazole, 2-(1-naphthalenyl)-5-[4-[2-(2-phenyl-6-benzofuranyl)ethenyl]phenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L3 ANSWER 48 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

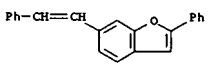


L3 ANSWER 49 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN

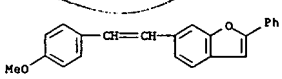
ACCESSION NUMBER: 1975:444710 CAPLUS
DOCUMENT NUMBER: 83:44710
TITLE: Heterocyclic, ethylenic double bond-containing compounds as fluorescent whiteners in the testile industry
INVENTOR(S): Siegrist, Adolf E.
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Patentschrift (Switz.), 19 pp.
CODEN: SWXXAS
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
CH 559758	A5	19750314	CH 1968-4115		19680320
ES 352964	A1	19720101	ES 1968-352964		19680420
PRIORITY APPLN. INFO.:			CH 1967-5735	A	19670421
			CH 1968-4115	A	19680320

GI For diagram(s), see printed CA Issue.
AB Fluorescent whiteners I (R, R3 = H, Me; R1 = H, Cl, Me, R4CH:CH; R2 = H, Me, Cl, Br, MeO; R4 = Ph, substituted Ph, naphthyl, thienyl; X = S, O) and II (R4 defined as in I, R5 = Ph, H; X = S, O) were prepared and were used to whiten polyester, polyamide, and polypropylene fibers, PVC [9002-86-2] and polystyrene [9003-53-6] from the melt. Thus, a mixture of 2-(p-tolyl)benzothiophene [25664-47-5] and PhCH:NHC6H4Cl-4 [780-21-2] in DMF in the presence of KOH gave fluorescent whitener I (R = R1 = R2 = R3 = H, R4 = Ph, X = S) [25664-50-0]. About 100 other I and II were similarly prepared
IT 25707-62-4P 29334-92-7P 29334-93-8P
29334-99-4P 29335-00-0P 29335-01-1P
29335-02-2P 29391-41-1P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and uv spectrum of)
RN 25707-62-4 CAPLUS
CN Benzofuran, 2-phenyl-6-(2-phenylethenyl)- (9CI) (CA INDEX NAME)

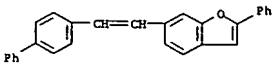


RN 29334-92-7 CAPLUS
CN Benzofuran, 6-[2-(4-methoxyphenyl)ethenyl]-2-phenyl- (9CI) (CA INDEX NAME)

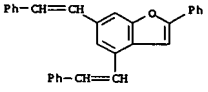


RN 29334-93-8 CAPLUS
CN Benzofuran, 6-(2-[1,1'-biphenyl]-4-ylethenyl)-2-phenyl- (9CI) (CA INDEX NAME)

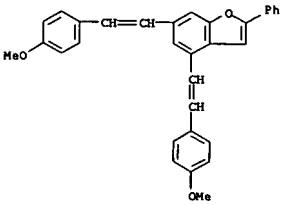
L3 ANSWER 49 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 29334-99-4 CAPLUS
CN Benzofuran, 2-phenyl-4,6-bis(2-phenylethenyl)- (9CI) (CA INDEX NAME)



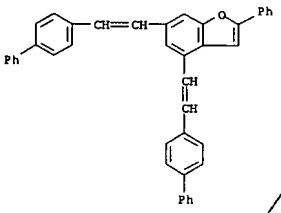
RN 29335-00-0 CAPLUS
CN Benzofuran, 4,6-bis[2-(4-methoxyphenyl)ethenyl]-2-phenyl- (9CI) (CA INDEX NAME)



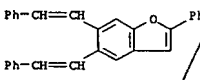
RN 29335-01-1 CAPLUS
CN Benzofuran, 4,6-bis(2-[1,1'-biphenyl]-4-ylethenyl)-2-phenyl- (9CI) (CA INDEX NAME)

Karen Cheng

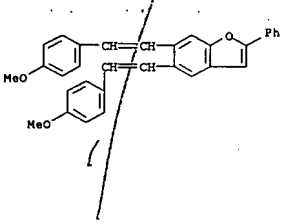
L3 ANSWER 49 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 29335-02-2 CAPLUS
CN Benzofuran, 2-phenyl-5,6-bis(2-phenylethenyl)- (9CI) (CA INDEX NAME)

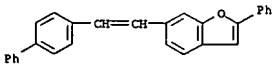


RN 29391-41-1 CAPLUS
CN Benzofuran, 5,6-bis[2-(4-methoxyphenyl)ethenyl]-2-phenyl- (9CI) (CA INDEX NAME)

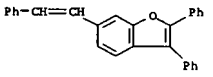


L3 ANSWER 50 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

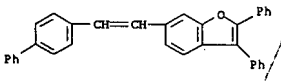
RN 29334-93-8 CAPLUS
CN Benzofuran, 6-(2-[1,1'-biphenyl]-4-ylethenyl)-2-phenyl- (9CI) (CA INDEX NAME)



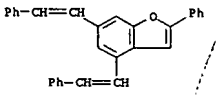
RN 29334-96-1 CAPLUS
CN Benzofuran, 2,3-diphenyl-6-styryl- (8CI) (CA INDEX NAME)



RN 29334-97-2 CAPLUS
CN Benzofuran, 2,3-diphenyl-6-(p-phenylstyryl)- (8CI) (CA INDEX NAME)



RN 29334-99-4 CAPLUS
CN Benzofuran, 2-phenyl-4,6-bis(2-phenylethenyl)- (9CI) (CA INDEX NAME)

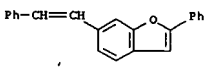


RN 29335-00-0 CAPLUS
CN Benzofuran, 4,6-bis[2-(4-methoxyphenyl)ethenyl]-2-phenyl- (9CI) (CA INDEX NAME)

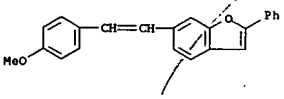
L3 ANSWER 50 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1970:510913 CAPLUS
DOCUMENT NUMBER: 73:110913
TITLE: Fluorescent benzofurans and benzothiophenes
PATENT ASSIGNEE(S): CIBA Ltd.
SOURCE: Fr., 70 pp.
CODEN: FRXXAX
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1562477	A	19690404	FR 1968-1562477	19680418
CH 540247	A	19730928	CH 1967-5735	19670421
SE 356749	B	19730604	SE 1968-3995	19680326
US 3697513	A	19721010	US 1968-721593	19680416
GB 1224664	A	19710310	GB 1968-1224664	19680418
BE 713976	A	19681021	BE 1968-713976	19680419
NL 6805579	A	19681022	NL 1968-5579	19680419
IT 942023	B	19730320	IT 1968-36415	19680419
			CH 1967-5735 A	19670421

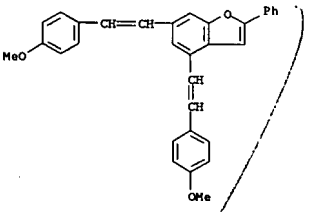
PRIORITY APPLN. INFO.:
GI For diagram(s), see printed CA Issue.
AB 2-(p-Tolyl)benzothiophenes and -benzofurans (I) are treated with aromatic aldehydes (including heterocyclics) to give stilbenes of the general formula II. Similarly prepared are III and IV, where X is O or S, and V. II-V are useful as fluorescent whiteners for polyesters, polyamides, and polyolefins. A total of 170 II-V, where R1-R6 are H, Me, Cl, Ph, Ch:CHAr, or (R1R2 =) or (R3R4 =) benzo, were prepared
IT 25707-62-4P 29334-92-7P 29334-93-8P
29334-96-1P 29334-97-2P 29334-99-4P
29335-00-0P 29335-01-1P 29335-02-2P
29391-41-1P 29395-29-7P
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)
RN 25707-62-4 CAPLUS
CN Benzofuran, 2-phenyl-6-(2-phenylethenyl)- (9CI) (CA INDEX NAME)



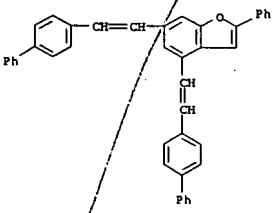
RN 29334-92-7 CAPLUS
CN Benzofuran, 6-[2-(4-methoxyphenyl)ethenyl]-2-phenyl- (9CI) (CA INDEX NAME)



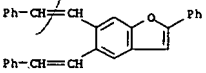
L3 ANSWER 50 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 29335-01-1 CAPLUS
CN Benzofuran, 4,6-bis(2-[1,1'-biphenyl]-4-ylethenyl)-2-phenyl- (9CI) (CA INDEX NAME)

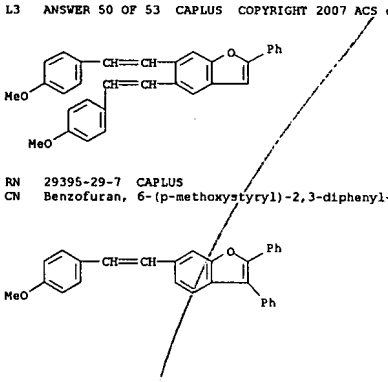


RN 29335-02-2 CAPLUS
CN Benzofuran, 2-phenyl-5,6-bis(2-phenylethenyl)- (9CI) (CA INDEX NAME)



RN 29391-41-1 CAPLUS
CN Benzofuran, 5,6-bis[2-(4-methoxyphenyl)ethenyl]-2-phenyl- (9CI) (CA INDEX NAME)

L3 ANSWER 50 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 29395-29-7 CAPLUS
CN Benzofuran, 6-(p-methoxystyryl)-2,3-diphenyl- (8CI) (CA INDEX NAME)

L3 ANSWER 51 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1969:438699 CAPLUS
DOCUMENT NUMBER: 71:38699
TITLE: Anil synthesis. II. Preparation of stilbene and styryl derivatives of nitrogen-free oxygen and sulfur heterocycles with aromatic character
AUTHOR(S): Siegrist, Adolf E.; Meyer, Hans R.
CORPORATE SOURCE: Forschungslab. TAP-Abt., CIBA A.-G., Basel, Switz.
SOURCE: Helvetica Chimica Acta (1969), 52(5), 1282-323
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 71:38699

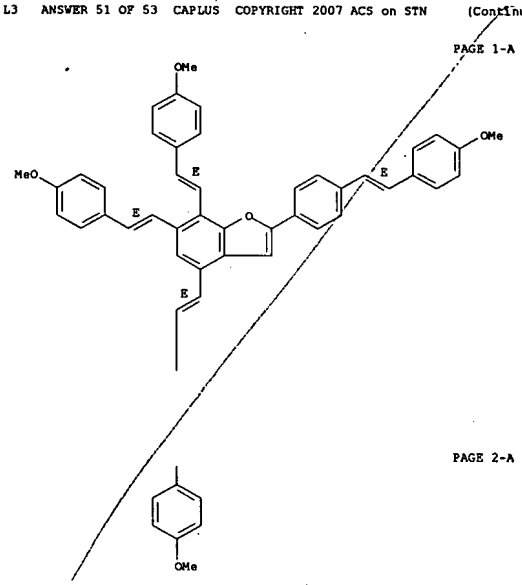
AB Ph-substituted furans, benzo[b]furans, naphtho[1,2-b]- and -[2,1-b]furans, thiophenes, benzo[b]thiophenes, naphtho[2,1-b]thiophenes, dibenzofurans, dibenzothiophenes, phenoxathiins, and thianthrenes, containing 1 or more Me groups in the Ph group and (or) in a benzene ring fused to a heterocycle, gave with aromatic aldehyde anils in Me2NCHO, in the presence of KOH or tert-BuOK, the corresponding stilbene and styrene derivs.

IT 22786-35-2P 22786-36-3P 22786-37-4P
22786-38-5P 22786-39-6P 22786-40-9P
22786-41-0P 22798-67-0P 22798-68-1P
22798-70-5P 22798-71-6P 22798-72-7P
22798-73-8P 22798-74-9P 22798-75-0P
22798-77-2P 22798-80-7P 22798-91-0P
22798-92-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 22786-35-2 CAPLUS
CN Benzofuran, 4,6,7-tris(p-methoxystyryl)-2-[p-(p-methoxystyryl)phenyl]-, (all-E)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.

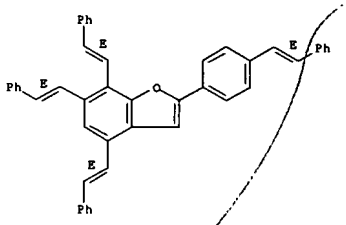
L3 ANSWER 51 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 22786-36-3 CAPLUS
CN Benzofuran, 4,6,7-tristyryl-2-(p-styrylphenyl)-, (all-E)- (8CI) (CA INDEX NAME)

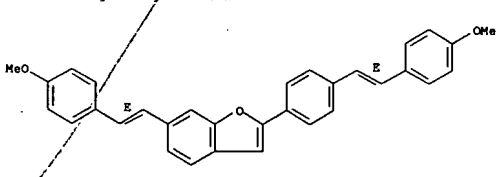
Double bond geometry as shown.

L3 ANSWER 51 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



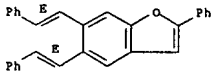
RN 22786-37-4 CAPLUS
CN Benzofuran, 6-(p-methoxystyryl)-2-[p-(p-methoxystyryl)phenyl]-, (E,E)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 22786-38-5 CAPLUS
CN Benzofuran, 2-phenyl-5,6-distyryl-, (E,E)- (8CI) (CA INDEX NAME)

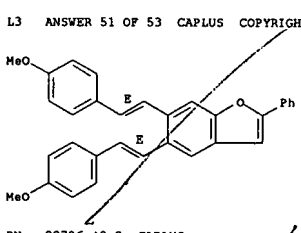
Double bond geometry as shown.



RN 22786-39-6 CAPLUS
CN Benzofuran, 5,6-bis(p-methoxystyryl)-2-phenyl-, (E,E)- (8CI) (CA INDEX NAME)

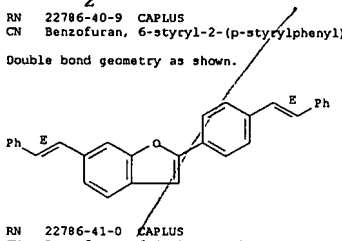
Double bond geometry as shown.

L3 ANSWER 51 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



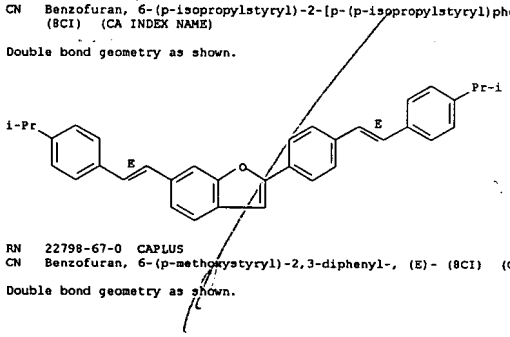
RN 22786-40-9 CAPLUS
CN Benzofuran, 6-styryl-2-(p-styrylphenyl)-, (E,E)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 22786-41-0 CAPLUS
CN Benzofuran, 6-(p-isopropylstyryl)-2-[p-(p-isopropylstyryl)phenyl]-, (E,E)- (8CI) (CA INDEX NAME)

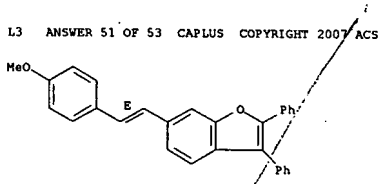
Double bond geometry as shown.



RN 22798-67-0 CAPLUS
CN Benzofuran, 6-(p-methoxystyryl)-2,3-diphenyl-, (E)- (8CI) (CA INDEX NAME)

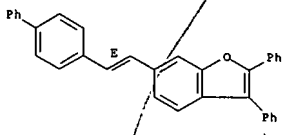
Double bond geometry as shown.

L3 ANSWER 51 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



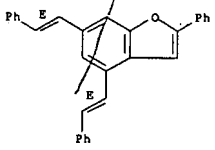
RN 22798-68-1 CAPLUS
CN Benzofuran, 2,3-diphenyl-6-(p-phenylstyryl)-, (E)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 22798-70-5 CAPLUS
CN Benzofuran, 2-phenyl-4,6-distyryl-, (E,E)- (8CI) (CA INDEX NAME)

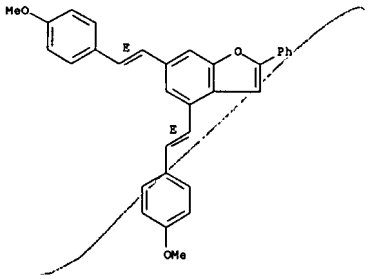
Double bond geometry as shown.



RN 22798-71-6 CAPLUS
CN Benzofuran, 4,6-bis(p-methoxystyryl)-2-phenyl-, (E,E)- (8CI) (CA INDEX NAME)

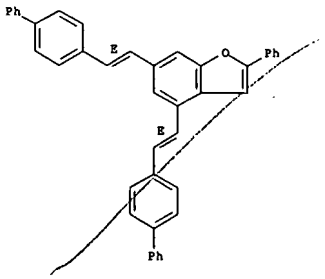
Double bond geometry as shown.

L3 ANSWER 51 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 22798-72-7 CAPLUS
CN Benzofuran, 2-phenyl-4,6-bis(p-phenylstyryl)-, (E,E)- (8CI) (CA INDEX NAME)

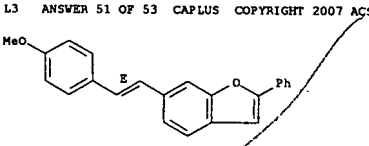
Double bond geometry as shown.



RN 22798-73-8 CAPLUS
CN Benzofuran, 6-(p-methoxystyryl)-2-phenyl-, (E)- (8CI) (CA INDEX NAME)

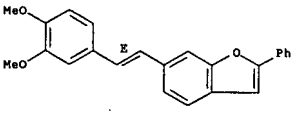
Double bond geometry as shown.

L3 ANSWER 51 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



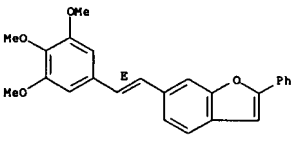
RN 22798-74-9 CAPLUS
CN Benzofuran, 6-(3,4-dimethoxystyryl)-2-phenyl-, (E)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.



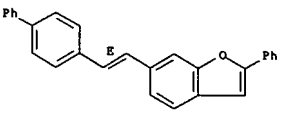
RN 22798-75-0 CAPLUS
CN Benzofuran, 2-phenyl-6-(3,4,5-trimethoxystyryl)-, (E)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 22798-77-2 CAPLUS
CN Benzofuran, 2-phenyl-6-(p-phenylstyryl)-, (E)- (8CI) (CA INDEX NAME)

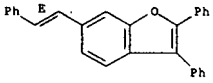
Double bond geometry as shown.



RN 22798-80-7 CAPLUS
CN Benzofuran, 2,3-diphenyl-6-(2-phenylethenyl)-, (E)- (9CI) (CA INDEX NAME)

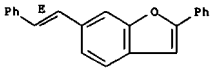
Double bond geometry as shown.

L3 ANSWER 51 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



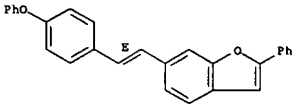
RN 22798-91-0 CAPLUS
CN Benzofuran, 2-phenyl-6-(2-phenylethenyl)-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



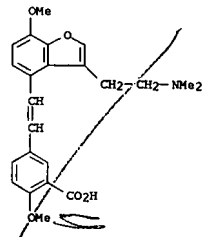
RN 22798-92-1 CAPLUS
CN Benzofuran, 6-(p-phenoxystyryl)-2-phenyl-, (E)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.



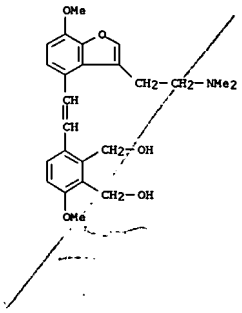
L3 ANSWER 52 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1963:409165 CAPLUS
DOCUMENT NUMBER: 59:9165
ORIGINAL REFERENCE NO.: 59:1694f-g
TITLE: The Diels-Alder reaction with thebaine. Thermal rearrangement of some adducts from acetylenic dienophiles
AUTHOR(S): Rapoport, Henry; Sheldrick, Peter
CORPORATE SOURCE: Univ. of California, Berkeley
SOURCE: Journal of the American Chemical Society (1963), 85, 1636-42
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 59:9165
GI For diagram(s), see printed CA Issue.
AB The facile thermal rearrangement of the adducts of thebaine with dimethyl acetylenedicarboxylate and ethyl propiolate has been investigated. On the basis of spectroscopic and degradative evidence, benzazocine structures have been deduced for the thermal isomers [I (R = R1 = CO2Me) and I (R = H, R1 = CO2Et), resp.] of these adducts. Some anomalous properties of these thermal isomers are discussed in terms of their possible bearing on the stereochemistry of this phenylfurobenzazocine system.
IT 95441-72-8 95624-90-1
(Derived from data in the 7th Collective Formula Index (1962-1966))
RN 95441-72-8 CAPLUS
CN o-Anisic acid, 5-[2-[3-[2-(dimethylamino)ethyl]-7-methoxy-4-benzofuranyl]vinyl]- (7CI) (CA INDEX NAME)



RN 95624-90-1 CAPLUS
CN o-Xylene-α,α'-diol, 6-[2-[3-[2-(dimethylamino)ethyl]-7-methoxy-4-benzofuranyl]vinyl]-3-methoxy- (7CI) (CA INDEX NAME)

L3 ANSWER 52 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L3 ANSWER 53 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1963:409164 CAPLUS
DOCUMENT NUMBER: 59:9164
ORIGINAL REFERENCE NO.: 59:1693c-h,1694a-f
TITLE: General methods of synthesis of indole alkaloids. III. A flavopereirine synthesis
AUTHOR(S): Wenkert, Ernest; Massy-Westropp, R. A.; Lewis, Ronald G.
CORPORATE SOURCE: Iowa State Univ., Ames
SOURCE: Journal of the American Chemical Society (1962), 84, 3732-6
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.
AB cf. CA 58, 10251d. The reactions of several N-[2-(3-indolyl)ethyl]pyridinium salts (I) with various metal hydrides were studied and used in a new synthesis of the alkaloid flavopereirine. Tryptophol (II) (3.0 g.) treated with PBr3, and the resulting crude tryptophyl bromide, m. 90-5°, heated 8 h. at 80° under N with 7 cc. C5H5N and diluted with Et2O precipitated 3.6 g. III (R, R', R'' = H) (IV), m. 231-3° (EtOH-Et2O). II (4.0 g.) and 6.0 g. 3-ethylpyridine gave similarly 3.8 g. III (R, R' = H, R'' = Et) (V), m. 137-40° (MeOH-Me2CO). Et 3-(2-methylindolyl)acetate reduced with LiAlH4 yielded α-methyltryptophol, b0.4 152-6°, m. 53-5° (petr. ether-C6H6); a 6.4-g. portion with C5H5N gave in the usual manner 5.0 g. III (R, R' = H, R'', = Me) (VI), m. 241-3° (MeOH-Et2O). 3-(1-Methyl-2-carboxyindolyl)acetic acid (2.0 g.) decarboxylated by refluxing 5 h. under N with 100 cc. 5% HCl gave 1.6 g. 3(1-methylindolyl)acetic acid, m. 126-8°, which with excess CH2N2 in Et2O gave the Me ester, b0.5 129-33°; Me ester (10.5 g.) reduced with LiAlH4 yielded 7.8 g. N-Me derivative (VII) of II, b0.5 122-6°. VII (6.4 g.) treated in the usual manner with PBr3 and then with C5H5N yielded 4.6 g. III (R = Me, R', R'' = H) (VIII), m. 106-8°. II (6.0 g.) and 13.4 g. 3-acetylpyridine ethylene ketal gave in the usual manner 10.3 g. III (R, R' = H, R'' = CMe[O2(CH2)2]) (IX), m. 209-10° (MeOH). IV (200 mg.) reduced with NaBH4 gave 96 mg. X (R, R', R'' = H) (XI), m. 151-2° (aqueous MeOH); picrate m. 173-4.5° (MeOH). V (200 mg.) reduced with NaBH4 gave 118 mg. X (R, R' = H, R'' = Et) (XII), m. 119-22° (aqueous MeOH); picrate m. 161-3°. VI (710 mg.) yielded similarly 340 mg. X (R, R' = H, R'' = Me) (XIII), m. 124-6°; picrate m. 176-8° (MeOH). VIII (600 mg.) reduced with NaBH4, and the product chromatographed yielded X (R = Me, R', R'' = H) (XIV), isolated as the picrate, m. 151-2.5° (MeOH). IX (200 mg.) reduced with NaBH4 yielded X (R, R' = H, R'' = CMe[O2(CH2)2]) (XV), m. 126.5-28° (hexane-CHCl3). XV (260 mg.), 20 cc. MeOH, and 6 cc. H2O adjusted with 0.5N HCl to pH 3, stirred 2.5 h. under N at room temperature, basified with 10% aqueous NaOH, and extracted with CHCl3 yielded 130 mg.X (R, R' = H, R'' = Ac)(XVI),m. 186-90°. IV(300mg.) and 1.20 g. NaBH4 in 20 cc. diglyme stirred 2 h. at room temperature under N, concentrated to near dryness, basified with 40 cc. 5% aqueous NaOH, and extracted with Et2O, the residue from the extract, 30 cc. N HCl, and 3 cc. AcOH heated 0.5 h. on the steam bath under N, basified, and extracted with CHCl3 and the residue from the extract chromatographed on 30 g. Al2O3 yielded 22 mg. XI and 12 mg. XVII (R, R' = H) (XVIII), m. 140-3°. XI (95 mg.) in 20 cc. EtOH hydrogenated

L3 ANSWER 53 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

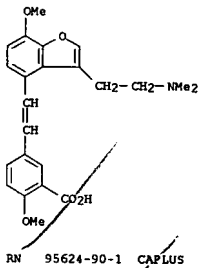
over 10 mg. PtO2 gave 80 mg. XIX (R, R', R'' = H), m. 149-50° (aq. MeOH); picrate m. 169.5-71°. XII (100 mg.) in 15 cc. EtOH hydrogenated over 10 mg. PtO2 gave 60 mg. XIX (R, R' = H, R'' = Et), m. 112-13.5°. XIII (100 mg.) in 20 cc. EtOH over 12 mg. PtO2 gave 70 mg. XIX (R, R' = H, R'' = Me),m. 101-3°(aq. MeOH). XIV (150 mg.) in 25 cc. EtOH hydrogenated over 12 mg. PtO2, and the oily product chromatographed on Al2O3 gave 2 oily fractions; one yielded an unidentified picrate (40 mg.), m. 191-2°, the other gave 55 mg. picrate (XX), m. 146-7°, of XIX (R = Me, R', R'' -- H). Me 3-(1-methylindolyl)acetate (800 mg.) and 6 cc. piperidine refluxed 40 h. under N and evapd., the crude residue refluxed 4 h. with 1.0 g. LiAlH4 in 150 cc. Et2O, and the product chromatographed on 50 g. Al2O3 yielded an oil which gave 1.10 g. XX, m. 146-7° (MeOH). XVII (32 mg.) and 7 mg. 10% Pd-C in 100 cc. EtOH hydrogenated yielded 30 mg. XIX (R, R', R'' = Ac), m. 130-2° (Et2O). IV (200 mg.) in 30 cc. Et2O treated with 125 mg. LiAlH4, stirred 1-2 h. under N at room temp., treated with N HCl, heated 0.5 h. on the steam bath, basified, and extd. with CHCl3, and the residue from the ext. chromatographed on 50 g. Al2O3 yielded 54 mg. XI, m. 151-2° (petr. ether), and 33 mg. XVIII, m. 144-4.5° (aq. MeOH). V (1.00 g.) in 200 cc. Et2O with 625 mg. LiAlH4 yielded similarly 372 mg. XII, m. 119-22°, 40 mg. mixed fractions, and 43 mg. XVII (R = H, R' = Et) (XXI) m. 143-5° (petr. ether). VI (200 mg.) in 30 cc. Et2O with 125 mg. LiAlH4 gave similarly 45 mg. XIII, m. 125-6° (petr. ether). VIII (1.00 g.) in 200 cc. Et2O treated in the usual manner with 625 mg. LiAlH4, and the product hydrogenated in 40 cc. EtOH over 40 mg. PtO2 yielded 400 mg. oil which gave the picrate, m. 198-200° (MeOH), of XXII (R = Me, R' = H) (XXIII), m. 198-200°. XXII (R, R' = H) (XXIV) (90 mg.) and 100 mg. K in 10 cc. dry C6H6 refluxed 7 h. under N, cooled, treated with 2 cc. MeI, stirred 16 h. at room temp., and evapd., and heated 0.5 h. at 300°, and the distillate chromatographed on 3 g. Al2O3 yielded an oil which gave 72 mg. XXIII, m. 198-200°. XVIII (120 mg.) in 20 cc. EtOH hydrogenated over 10 mg. PtO2 yielded 90 mg. XXIV, m. 151-2° (aq. EtOH). XXI (110 mg.) hydrogenated similarly gave the mixed stereoisomeric XXII (R = H, R' = Et), m. 161-3°; a 75-mg. sample and 375 mg. Hg(OAc)2 in 6 cc. 5% AcOH heated 3 h. under N at 80°, treated with H2S, worked up, and the product treated with HClO4 gave 54 mg. XXV, m. 217-20° (EtOH). XXI (45 mg.), 154 mg. maleic acid, and 22 mg. Pd black in 2 cc. H2O heated 24 h. at 100°, dild. with MeOH, filtered hot, treated with 1 g. NaClO4 in 2 cc. H2O, cooled 1 h., and filtered yielded 65 mg. 5,6-dihydroflavopereirine perchlorate, m. 278-81° (EtOH). IV (400 mg.) and 1.76 g. LiAlH(OCMe3)3 (XXVI) in 25 cc. dry THF stirred 2.5 h. under N at room temp. treated with 20 g. Na2SO4 (pasted with H2O), filtered, treated with 20 cc. N HCl, kept 2 h. under N at room temp., heated 45 min. on the steam bath, adjusted with 10% aq. NaOH to pH 12, and extd. with CHCl3, and the yellow oily residue from the ext. chromatographed on 50 g. Al2O3 gave 90 mg. XVIII, m. 145-6° (petr. ether), and 14 mg. XI, m. 150-2° (petr. ether). V (210 mg.) reduced similarly with 837 mg. XXVI yielded 58 mg. XXI, m. 144-6° (petr. ether).

IT 95441-72-8P, o-Anisic acid, 5-[2-[3-[2-(dimethylamino)ethyl]-7-methoxy-4-benzofuranyl]vinyl]- 95624-90-1P, o-Xylene-α,α'-diol, 6-[2-[3-[2-(dimethylamino)ethyl]-7-methoxy-4-benzofuranyl]vinyl]-3-methoxy-
RL: PREP (Preparation)

L3 ANSWER 53 OF 53 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
(prepn. of)

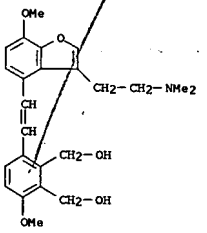
RN 95441-72-8 CAPLUS

CN o-Anisic acid, 5-[2-[3-[2-(dimethylamino)ethyl]-7-methoxy-4-benzofuranyl]vinyl]- (7CI) (CA INDEX NAME)



RN 95624-90-1 CAPLUS

CN o-Xylene-α,α'-diol, 6-[2-[3-[2-(dimethylamino)ethyl]-7-methoxy-4-benzofuranyl]vinyl]-3-methoxy- (7CI) (CA INDEX NAME)



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FULL ESTIMATED COST	226.65	681.89

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L3 53 S L2

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SEL RN

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L6 116 S E1-E116

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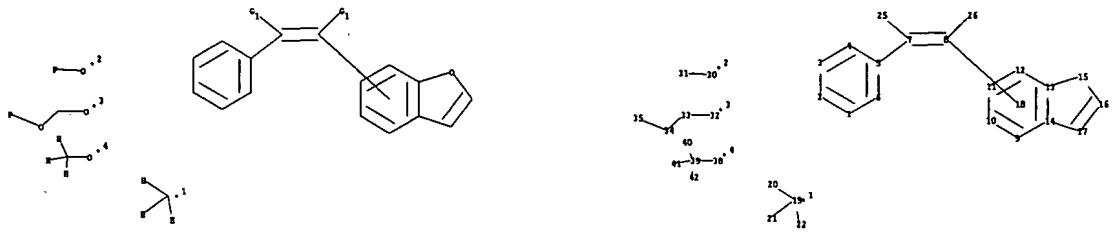

chain nodes :
7 8 19 20 21 22 25 26 30 31 32 33 34 35 38 39 40 41 42

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10563465a

chain nodes :
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ring nodes :
1 2 3 4 5 6 9 10 11 12 13 14 15 16 17
chain bonds :
5-7 7-8 7-20 8-21 25-26 25-27 25-28
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-14 10-11 11-12 12-13 13-14 13-15 14-17
15-16 16-17
exact/norm bonds :
7-20 8-21
exact bonds :
5-7 7-8 13-15 14-17 15-16 16-17 25-26 25-27 25-28
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-14 10-11 11-12 12-13 13-14
isolated ring systems :
containing 9 :

G1:H,X,[*1]

G2:H,OH

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 20:CLASS
21:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS

L9 STRUCTURE UPLOADED

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=> d
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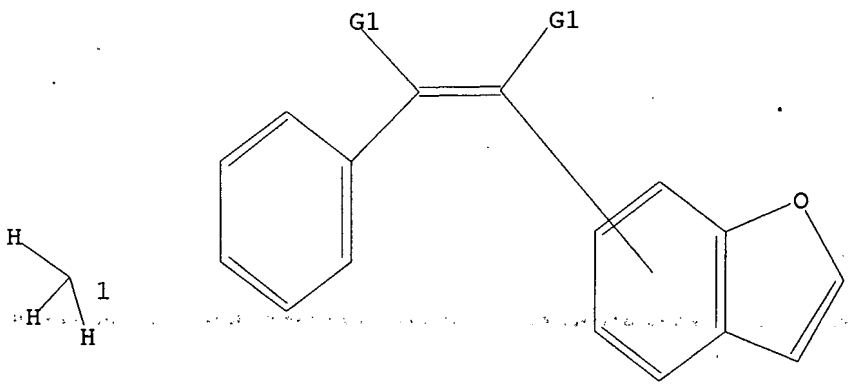
L9 STR



G1 H,X,[@1]
G2 H,OH

Structure attributes must be viewed using STN Express query preparation.

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FULL SCREEN SEARCH COMPLETED - 17836 TO ITERATE

100.0% PROCESSED 17836 ITERATIONS 216 ANSWERS
SEARCH TIME: 00.00.01

L10 216 SEA SSS FUL L9

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L11 27 L10 NOT L2

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L12 17 L11

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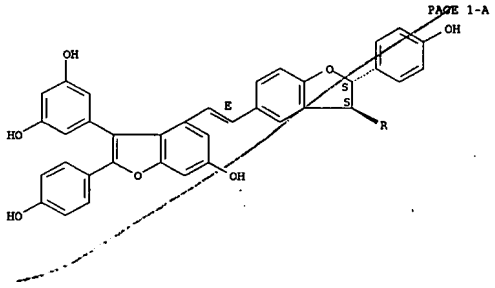
ACCESSION NUMBER: 2005:1048456 CAPLUS
DOCUMENT NUMBER: 143:352838
TITLE: Cosmetic compositions limiting skin wrinkles caused by subcutaneous muscle contractions containing resveratrol and/or its derivatives
INVENTOR(S): Fructus, Alain Edouard
PATENT ASSIGNEE(S): AF Consulting, Fr.
SOURCE: Fr. Demande, 25 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

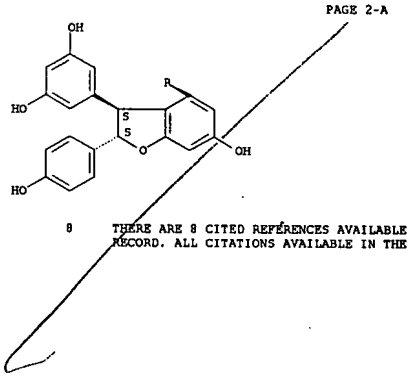
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2867977	A1	20050930	FR 2004-3118	20040326
PRIORITY APPLN. INFO.:			FR 2004-3118	20040326

AB Cosmetic, pharmaceutical and dermo-pharmaceutical compns. intended to prevent and/or fight against the wrinkles of the skin caused and/or accentuated by s.c. muscle contractions are disclosed. The presents invention describes the family of the stilbenes that presents the property of reduction of the muscular contractions, hitherto not described for this chemical groups. Formulation of an antiaging cream contained 6% resveratrol is disclosed.
IT 388121-57-1, Amurensin L
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(cosmetic compns. limiting skin wrinkles caused by s.c. muscle contractions containing resveratrol and/or its derivs.)
RN 388121-57-1 CAPLUS
CN 1,3-Benzenediol, 5-[(2R,2'R,3R,3'R)-5-[(1E)-2-[3-(3,5-dihydroxyphenyl)-6-hydroxy-2-(4-hydroxyphenyl)-4-benzofuranyl]ethenyl]-2,2',3,3'-tetrahydro-6'-hydroxy-2,2'-bis(4-hydroxyphenyl)[3,4'-bibenzofuran]-3'-yl]-, rel-(-)- (9CI) (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.
Double bond geometry as shown.



L12 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



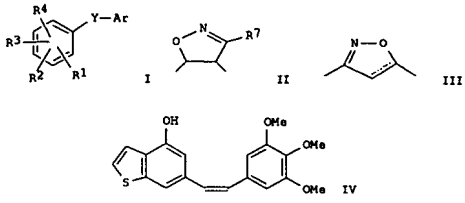
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:71172 CAPLUS
DOCUMENT NUMBER: 142:176612
TITLE: Preparation of combretastatin derivatives with cytotoxic activity
INVENTOR(S): Simoni, Daniele; Romagnoli, Romeo; Giannini, Giuseppe; Alloati, Domenico; Pisano, Claudio
PATENT ASSIGNEE(S): Sigma-Tau Industrie Farmaceutiche Riunite S.p.A., Italy
SOURCE: PCT Int. Appl., 76 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005007635	A2	20050127	WO 2004-IT373	20040706
WO 2005007635	A8	20050512		
WO 2005007635	A3	20050811		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004257011	A1	20050127	AU 2004-257011	20040706
CA 2531389	A1	20050127	CA 2004-2531389	20040706
EP 1646616	A2	20060419	EP 2004-745198	20040706
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
CN 1826330	A	20060830	CN 2004-80020757	20040706
BR 2004012744	A	20060926	BR 2004-12744	20040706
IN 2005KN02718	A	20061208	IN 2005-KN2718	20051226
US 2006160773	A1	20060720	US 2006-563465	20060105
PRIORITY APPLN. INFO.:			IT 2003-RM355 A	20030718
			WO 2004-IT373 W	20040706

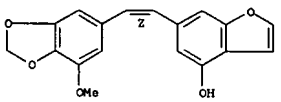
OTHER SOURCE(S): CASREACT 142:176612; MARPAT 142:176612
GI

L12 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



AB Combretastatin derivs., such as I [R1, R2, R3, R4 = H, OH, OMe, OCH2O, NO2, F, Cl, Br, OPO3H2, OCH2OPO3H2 and their disodium salts; R1R2 = CR8:CR9X; R8, R9 = H, OH, NO2, NH2, halo, OPO3H2, OCH2OPO3H2 and their disodium salts; X = O, S, N; Y = CR5:CR6-cis or trans; II, III; R5, R6 = H, halo; R7 = H, OMe, SO2Ph; Ar = aryl, heterocyclyl], are prepared and evaluated for their cytotoxic activity. The prepared compds., though chemical
related to the structure of cis/trans-combretastatin, do not always bind tubulin, but nevertheless exhibit cytotoxic activity of interest in the oncol. field as anticancer and/or antiangiogenic agents. Thus, combretastatin derivative IV was prepared via a multistep synthetic sequence starting from 2-thienylcarboxaldehyde, diethylsuccinate and (3,4,5-trimethoxybenzyl)triphenylphosphonium bromide. IV exhibited cytotoxicity against bovine microcirculatory endothelial cells (IC50 = 87±1 nM).
IT 832128-10-6P 832128-12-8P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of combretastatin derivs. as anticancer and/or antiangiogenic
agents)
RN 832128-10-6 CAPLUS
CN 4-Benzofuranol, 6-[(1Z)-2-(7-methoxy-1,3-benzodioxol-5-yl)ethenyl]- (9CI) (CA INDEX NAME)

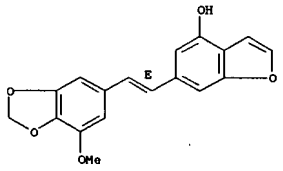
Double bond geometry as shown.



RN 832128-12-8 CAPLUS
CN 4-Benzofuranol, 6-[(1E)-2-(7-methoxy-1,3-benzodioxol-5-yl)ethenyl]- (9CI) (CA INDEX NAME)

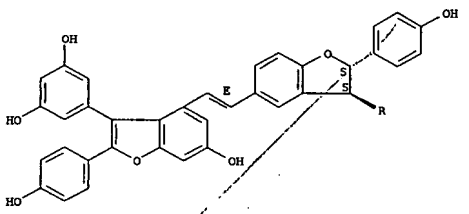
Karen Cheng

L12 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
Double bond geometry as shown.

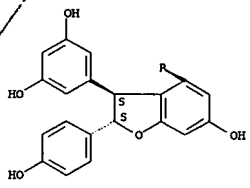


L12 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A



PAGE 2-A



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:249286 CAPLUS
DOCUMENT NUMBER: 140:275742
TITLE: Cosmetic composition for care of the skin containing resveratrol oligomers, in particular e-viniferine, and/or their derivatives
INVENTOR(S): Fructus, Alain
PATENT ASSIGNEE(S): AF Consulting, Fr.
SOURCE: Fr. Demande, 29 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2844715	A1	20040326	FR 2002-11629	20020920
FR 2844715	B1	20070427		

PRIORITY APPLN. INFO.: FR 2002-11629 20020920

AB Cosmetic compns. for care of skin containing oligomers of resveratrol, in particular e-viniferine, and/or their derives. are claimed. Tests has shown that oligomers of resveratrol, in particular e-viniferine and vegetable exts. containing it have useful properties for the skin such as sunscreen, bleaching, anti-radical, anti-oxidizing, and anti-tyrosinase activities, eutrophic activity which increases the renewal of collagen, elastin, and increases the thickness, flexibility, elasticity, firmness of the skin, anti-inflammatory activity, antimicrobial activity specific on the Propionibacterium acne, Staphylococcus aureus, Staphylococcus epidermidis, Malassezia furfur, keratolytic activity, anti-pollution activity, anti-glycation activity, activities allowing the reduction of the white hair and the inhibition of whitening of hair, beard, and the body hairs. The invention describes cosmetic, medicinal products and food complements, intended to prevent and fight against disorders of the skin and its appendix. Many formulations containing resveratrol are disclosed.

IT 388121-57-1, Amurensin 1
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(cosmetic compns. for care of skin undergoing hormonal disequil. containing resveratrol oligomers, in particular viniferine, and/or their derivs.)

RN 388121-57-1 CAPLUS
CN 1,3-Benzenediol, 5-[(2R,2'R,3R,3'R)-5-[(1E)-2-[3-(3,5-dihydroxyphenyl)-6-hydroxy-2-(4-hydroxyphenyl)-4-benzofuranyl]ethenyl]-2,2',3,3'-tetrahydro-6'-hydroxy-2,2'-bis(4-hydroxyphenyl)[3,4'-bibenzofuran]-3'-yl]-, rel-(-)- (9CI) (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.
Double bond geometry as shown.

L12 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:249285 CAPLUS
DOCUMENT NUMBER: 140:275741
TITLE: Cosmetic compositions for the care of the skin undergoing a hormonal disequilibrium containing resveratrol oligomers, in particular epsilone-viniferine, and/or their derivatives
INVENTOR(S): Fructus, Alain
PATENT ASSIGNEE(S): AF Consulting, Fr.
SOURCE: Fr. Demande, 29 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2844714	A1	20040326	FR 2002-11628	20020920
FR 2844714	B1	20070427		
WO 2004026222	A2	20040401	WO 2003-FR2755	20030919
WO 2004026222	A3	20040603		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003283474	A1	20040408	AU 2003-283474	20030919

PRIORITY APPLN. INFO.: FR 2002-11628 A 20020920
WO 2003-FR2755 W 20030919

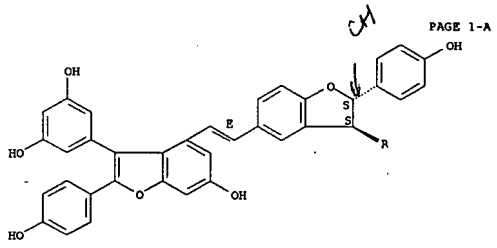
AB Cosmetic compns. intended for the care of the skin and/or the its appendices undergoing a hormonal imbalance, contain oligomers of resveratrol, in particular of the e-viniferine, and/or some of their derives. The hormonal imbalances exert neg. effects on the state of skin, nails, hair, lips, external genitals, and oral mucous membranes. The menopause causes hormonal imbalances which are significant. Products containing these hormones which are absent in the skin were developed only within pharmaceutical framework, because the use of these hormones are prohibited in cosmetics. Nonsteroidal phytohormones were also used, but the majority of the studies using these products were carried out by oral way. The studies on the topical treatments are not really explicit. The retinoids represent another category of mols. used to treat the cutaneous symptoms of hormonal imbalances. Use of retinoic acid in cosmetics is prohibited because it is teratogenic and very irritating. Studies and patents describe products based on a stilbene and resveratrol. A test carried out with skin of menopause women, shows that e-viniferine (a dimer of resveratrol), and a vegetable extract containing it, have hormonal and retinoid effects on these skin. The invention describes cosmetic, medicinal products and food complements, intended to prevent and treat the neg. effects of a hormonal imbalance of the skin and its appendices. These compns. contain at least an oligomer of resveratrol, and/or a derivative, and/or a vegetable extract containing them.

IT 388121-57-1, Amurensin 1
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

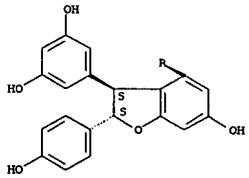
L12 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
(cosmetic compns. for care of skin undergoing hormonal disequil. contg. resveratrol oligomers, in particular viniferine, and/or their derivs.)
RN 388121-57-1 CAPLUS
CN 1,3-Benzenediol, 5-[(2R,2'R,3R,3'R)-5-[(1E)-2-[3-(3,5-dihydroxyphenyl)-6-hydroxy-2-(4-hydroxyphenyl)-4-benzofuranyl]ethenyl]-2,2',3,3'-tetrahydro-6'-hydroxy-2,2'-bis(4-hydroxyphenyl)[3,4'-bibenzofuran]-3'-yl]-, rel-(-)- (9CI) (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.
Double bond geometry as shown.

PAGE 1-A



PAGE 2-A

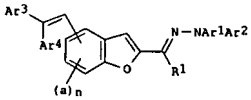


REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:796459 CAPLUS
DOCUMENT NUMBER: 135:350462
TITLE: Electrophotographic photoreceptor having specific charge-generating substance and specific charge-transporting substance
INVENTOR(S): Kondo, Akihiro; Kohata, Takashi
PATENT ASSIGNEE(S): Sharp Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001305765	A	20011102	JP 2000-126496	20000426
PRIORITY APPLN. INFO.:			JP 2000-126496	20000426
OTHER SOURCE(S):	MARPAT 135:350462			

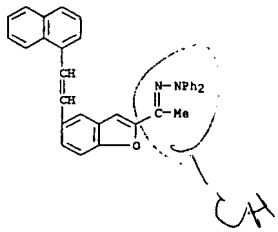
GI



I

AB The title electrophotog. photoreceptor has a light-sensitive layer containing a charge-generating compound and a charge-transporting compound on an electroconductive support, wherein the charge-generating compound is oxo titanium phthalocyanine crystal, which has 7.3°, 9.4°, 9.6°, 11.6°, 13.3°, 17.9°, 24.1°, and 27.2° diffraction peaks showing overlapped 9.4°, 9.6° as the maximum diffraction peaks and 27.2° as the second maximum diffraction peak at a Bragg angle (2θ±0.2°) in the X-ray diffraction and wherein the charge-transporting compound is benzofuranhydrazone derivative I (Ar1-4 = aryl, aralkyl, C1-5 alkyl, etc.; R1 = aryl, aralkyl, C1-5 alkyl, etc.; a = C1-3 alkyl, C1-5fluoroalkyl, C1-3 alkoxy, etc.; n = 1-3 integer). The photoreceptor, which has the aforementioned charge-generating substance and the aforementioned charge-transporting substance, shows the good sensitivity near-IR light and the good photoreceptor characteristics.
IT 371154-85-7P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(light-sensitive layer of electrophotog. photoreceptor)
RN 371154-85-7 CAPLUS
CN Ethanone, 1-[5-[2-(1-naphthalenyl)ethenyl]-2-benzofuranyl]-,

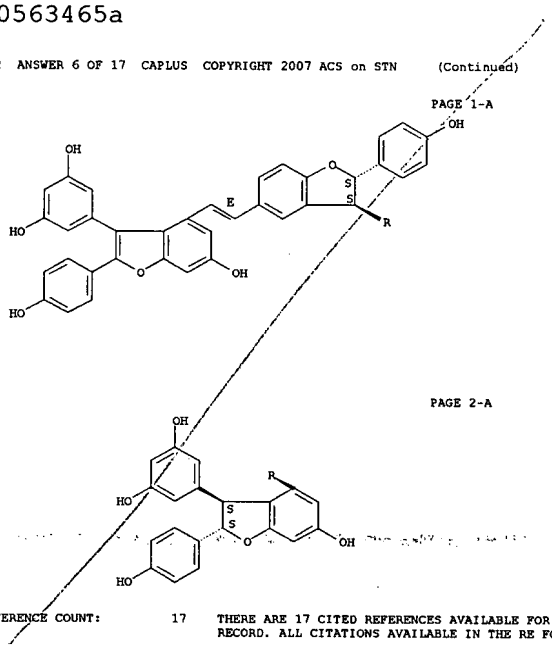
L12 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
diphenylhydrazone (9CI) (CA INDEX NAME)



L12 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:667402 CAPLUS
DOCUMENT NUMBER: 136:95752
TITLE: Anti-inflammatory tetramers of resveratrol from the roots of Vitis amurensis and the conformations of the seven-membered ring in some oligostilbenes
AUTHOR(S): Huang, K.-S.; Lin, M.; Cheng, G.-F.
CORPORATE SOURCE: Institute of Materia Medica, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, 100050, Peop. Rep. China
SOURCE: Phytochemistry (2001), 58(2), 357-362
CODEN: PYTCAS; ISSN: 0031-9422
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Five resveratrol tetramers, amurensins I-M, were isolated from the roots of Vitis amurensis (Rupr.), together with five known resveratrol tetramers, (+)-hopeaphenol, isohopeaphenol, vitisin A, (+)-vitisifuran A, and heyneanol A. Their structures and stereochem. were determined by chemical and spectroscopic methods, especially by use of 2D NMR anal. Some of them had an ampelopsin A or a balanocarpol unit, in which the conformations of the seven-membered carbon ring were described for the first time. The anti-inflammatory activities of the tetramers were also tested. Among them, (+)-hopeaphenol, isohopeaphenol, vitisin A, (+)-vitisifuran A and heyneanol A showed potent inhibition on the biosynthesis of leukotriene B4 (LTB4), and amurensins I and L showed strong antagonism of the histamine acceptor.
IT 388121-57-1P, Amurensin L
RL: NPO (Natural product occurrence); PAC (Pharmacological activity); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(anti-inflammatory tetramers of resveratrol from roots of Vitis amurensis and conformations of seven-membered ring in oligostilbenes)
RN 388121-57-1 CAPLUS
CN 1,3-Benzenediol, 5-[(2R,2'R,3R,3'R)-5-[(1E)-2-[3-(3,5-dihydroxyphenyl)-6-hydroxy-2-(4-hydroxyphenyl)-4-benzofuranyl]ethenyl]-2,2',3,3'-tetrahydro-6'-hydroxy-2,2'-bis(4-hydroxyphenyl)[3,4'-bibenzofuran]-3'-yl]-, rel-(-)- (9CI) (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.
Double bond geometry as shown.

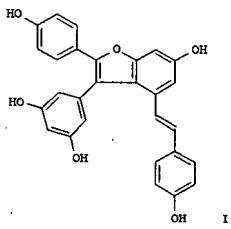
L12 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:161883 CAPLUS
DOCUMENT NUMBER: 130:309064
TITLE: New oligostilbenes having a benzofuran from Vitis vinifera 'Kyohou'
AUTHOR(S): Ito, Junko; Takaya, Yoshiaki; Oshima, Yoshiteru; Niwa, Masatake
CORPORATE SOURCE: Faculty Pharmacy, Meijo University, Tempaku, Nagoya, 4688503, Japan
SOURCE: Tetrahedron (1999), 55(9), 2529-2544
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



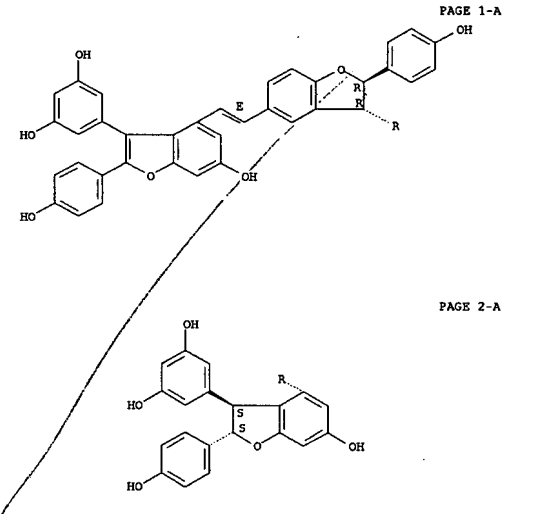
I

AB Three new oligostilbenes having a benzofuran moiety, viniferifuran (e.g. I), (+)-vitisifuran A and (-)-vitisifuran B, were isolated from Vitis vinifera 'Kyohou'. The structures of these oligostilbenes including the absolute configuration were elucidated by spectroscopic and chemical methods.
Furthermore, these were chemical transformed from (+)-ε-viniferin, (+)-vitisin A and (-)-vitisin B, resp., whose absolute configurations are known.

IT 223558-40-5P, (-)-Vitisifuran B
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); SPN (Synthetic preparation); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(from Vitis vinifera)
RN 223558-40-5 CAPLUS
CN 1,3-Benzenediol, 5-[(2R,2'S,3R,3'S)-5-[(1E)-2-[3-(3,5-dihydroxyphenyl)-6-hydroxy-2-(4-hydroxyphenyl)-4-benzofuranyl]ethenyl]-2,2',3,3'-tetrahydro-6'-hydroxy-2,2'-bis(4-hydroxyphenyl)[3,4'-bibenzofuran]-3'-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

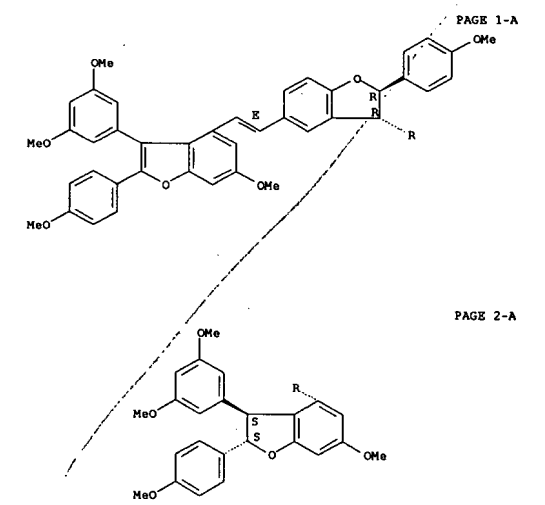
L12 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



IT 223558-77-8P, (-)-Vitisifuran B nonamethyl ether
223558-87-0P 223558-91-6P 223558-97-2P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and properties of)
RN 223558-77-8 CAPLUS
CN 3,4'-Bibenzofuran, 3'-(3,5-dimethoxyphenyl)-5-[(1E)-2-[3-(3,5-dimethoxyphenyl)-6-methoxy-2-(4-methoxyphenyl)-4-benzofuranyl]ethenyl]-2,2',3,3'-tetrahydro-6'-methoxy-2,2'-bis(4-methoxyphenyl)-, (2R,2'S,3R,3'S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

L12 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

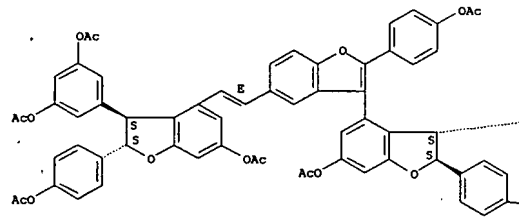


RN 223558-87-0 CAPLUS
CN 1,3-Benzenediol, 5-[(2'S,3'S)-6'-(acetyloxy)-5-[(1E)-2-[(2S,3S)-6-(acetyloxy)-2-[4-(acetyloxy)phenyl]-3-[3,5-bis(acetyloxy)phenyl]-2,3-dihydro-4-benzofuranyl]ethenyl]-2,2'-bis[4-(acetyloxy)phenyl]-2',3'-dihydro[3,4'-bibenzofuran]-3'-yl]-, diacetate (9CI) (CA INDEX NAME)

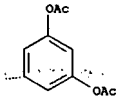
Absolute stereochemistry.
Double bond geometry as shown.

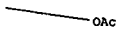
L12 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B



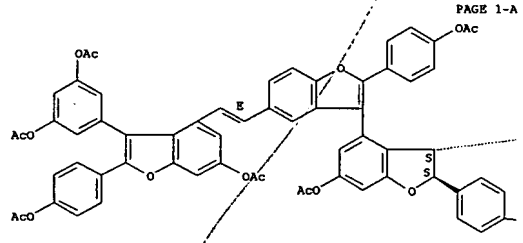


RN 223558-91-6 CAPLUS
CN 1,3-Benzenediol, 5-[(2R,2'S,3R,3'S)-6'-(acetyloxy)-5-[(1E)-2-[6-(acetyloxy)-2-[4-(acetyloxy)phenyl]-3-[3,5-bis(acetyloxy)phenyl]-4-benzofuranyl]ethenyl]-2,2'-bis[4-(acetyloxy)phenyl]-2,2',3,3'-tetrahydro[3,4'-bibenzofuran]-3'-yl]-, diacetate (9CI) (CA INDEX NAME)

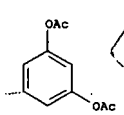
Absolute stereochemistry.
Double bond geometry as shown.

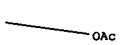
L12 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B

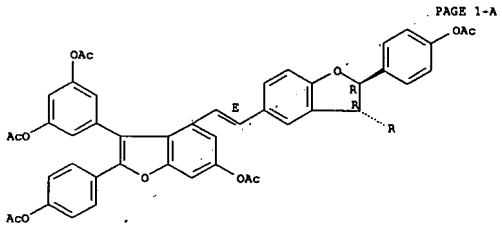




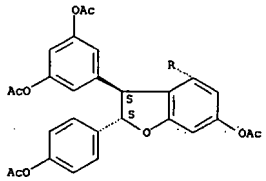
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A



PAGE 2-A



RN 223558-97-2 CAPLUS
CN 1,3-Benzenediol, 5-[(2'S,3'S)-6'-(acetyloxy)-5-[(1E)-2-[6-(acetyloxy)-2-[4-(acetyloxy)phenyl]-3-(3,5-bis(acetyloxy)phenyl]-4-benzofuranyl]ethenyl]-2,2'-bis[4-(acetyloxy)phenyl]-2',3'-dihydro[3,4'-bibenzofuran]-3'-yl]-, diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

L12 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN

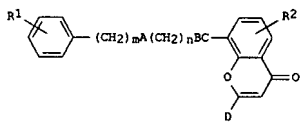
ACCESSION NUMBER: 1997:640657 CAPLUS
DOCUMENT NUMBER: 127:318881
TITLE: Preparation of aryloxobenzopyrancarboxylate derivatives as leukotriene antagonists.
INVENTOR(S): Carganico, Germano; Mauleon Casellas, David; Pascual Avellana, Jaime; Garcia Perez, Maria Luisa; Palomer Benet, Albert
PATENT ASSIGNEE(S): Laboratorios Menarini S.A., Spain
SOURCE: PCT Int. Appl., 134 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9734885	A1	19970925	WO 1997-EP1418	19970320
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU				
RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
ES 2127106	A1	19990401	ES 1996-682	19960321
ES 2127106	B1	19991116		
CA 2249402	A1	19970925	CA 1997-2249402	19970320
CA 2249402	C	20061024		
AU 9721587	A	19971010	AU 1997-21587	19970320
AU 707282	B2	19990708		
EP 888327	A1	19990107	EP 1997-914280	19970320
EP 888327	B1	20020612		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CN 1214048	A	19990414	CN 1997-193193	19970320
HU 9901326	A2	19990830	HU 1999-1326	19970320
BR 9708215	A	20000104	BR 1997-8215	19970320
JP 2000506878	T	20000606	JP 1997-533159	19970320
JP 3914575	B2	20070516		
EE 3526	B1	20011015	EE 1998-318	19970320
AT 219073	T	20020615	AT 1997-914280	19970320
IL 126296	A	20020814	IL 1997-126296	19970320
PT 888327	T	20021129	PT 1997-914280	19970320
ES 2176719	T3	20021201	ES 1997-914280	19970320
SK 282979	B6	20030109	SK 1998-1272	19970320
PL 189562	B1	20050831	PL 1997-329027	19970320
CZ 296260	B6	20060215	CZ 1998-2995	19970320
NO 9804330	A	19981009	NO 1998-4330	19980917
NO 319612	B1	20050829		
BG 63433	B1	20020131	BG 1998-102775	19980917
US 5990142	A	19991123	US 1998-142922	19981015
HK 1018701	A1	20050819	HK 1999-103747	19990831

PRIORITY APPLN. INFO.: ES 1996-682 A 19960321
WO 1997-EP1418 W 19970320

OTHER SOURCE(S): MARPAT 127:318881
GI

L12 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



I

AB Title compds. [I; A = O, S, CH2; B = (substituted) benzofused heterocyclylene, phenylene; E = CONR7, CSNR7, SO2NR7, CH2O, CH:CH; R7 = H, Me; D = 5-tetrazolyl, CO2R8; R8 = H, alkyl, phenylalkyl; R1, R2 = H, halo, alkyl, OMe, OH; with provisos; m, n = 0-4], were prepared Thus, N-[4-oxo-2-(1H-5-tetrazolyl)-4H-1-benzopyran-8-yl]-2-(4'-fluorobenzyloxymethyl)-2,3-dihydrobenzofuran-5-carboxamide (multistep preparation given) showed [3H]-LTD4 receptor binding inhibition with Ki = 0.39 nM.

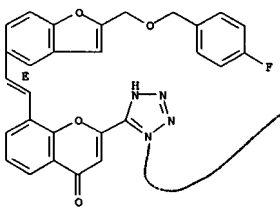
IT 197506-07-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of aryloxobenzopyrancarboxylate derivs. as leukotriene antagonists)

RN 197506-07-3 CAPLUS

CN 4H-1-Benzopyran-4-one, 8-[2-[2-[[(4-fluorophenyl)methoxy]methyl]-5-benzofuranyl]ethenyl]-2-(1H-tetrazol-5-yl)-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 197507-50-9P 197507-51-0P

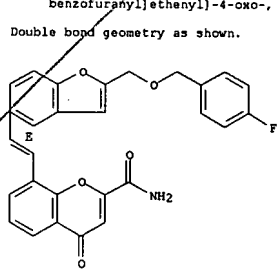
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of aryloxobenzopyrancarboxylate derivs. as leukotriene antagonists)

L12 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 197507-50-9 CAPLUS

CN 4H-1-Benzopyran-2-carboxamide, 8-[2-[2-[[(4-fluorophenyl)methoxy]methyl]-5-benzofuranyl]ethenyl]-4-oxo-, (E)- (9CI) (CA INDEX NAME)

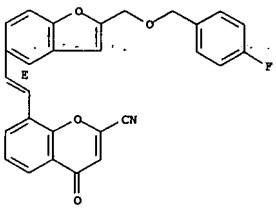
Double bond geometry as shown.



RN 197507-51-0 CAPLUS

CN 4H-1-Benzopyran-2-carbonitrile, 8-[2-[2-[[(4-fluorophenyl)methoxy]methyl]-5-benzofuranyl]ethenyl]-4-oxo-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

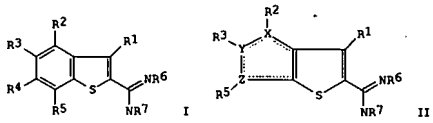


L12 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:298461 CAPLUS
DOCUMENT NUMBER: 120:298461
TITLE: Benzothiophenes amidine and thienothiopheneamidine urokinase inhibitors
INVENTOR(S): Bridges, Alexander; Schwartz, C. Eric; Littlefield, Bruce A.
PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 72 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 568289	A2	19931103	EP 1993-303207	19930423
EP 568289	A3	19940601		
R: CH, DE, FR, GB, IT, LI, NL, SE				
US 5340833	A	19940823	US 1992-877664	19920501
CA 2094332	A1	19931102	CA 1993-2094332	19930419
JP 06049058	A	19940222	JP 1993-102282	19930428
JP 3325076	B2	20020917		
PRIORITY APPLN. INFO.:			US 1992-877664 A	19920501
OTHER SOURCE(S):	MARPAT 120:298461			

GI



I II

AB The title compds. I (R1 = H, NH2, halogen; R2-R5 = H, halogen, HO, NH2, NO2, organic group; R6, R7 = H, C1-6 straight-chain alkyl; such that ≥1 of R2-R5 is a C≥5 organic group) and II (≥1 of X, Y, or Z must be C; ≥1 of X, Y, or Z must be O, N, or S and if ≥1 of X, Y, or Z is O, N, or S than ≥1 of those groups is N), useful in treating cellular invasiveness initiated by urokinase, are prepared Thus, 3-fluoroanisole was formylated into 6-fluoro-2-methoxybenzaldehyde, the intermediate annulated with Me thioglycollate, producing Me 4-methoxybenzo[b]thiophene-2-carboxylate, which was subjected to amidination, producing I (R1 = R3-R7 = H, R2 = OMe) (III). III demonstrated 12% residual urokinase activity at 1 mM in the Urokinase Direct Assay.

IT 154630-22-5

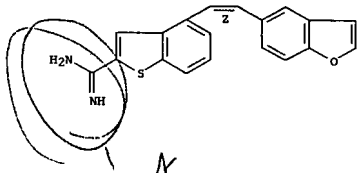
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation as urokinase inhibitor)

RN 154630-22-5 CAPLUS

CN Benzo[b]thiophene-2-carboximidamide, 4-[2-(5-benzofuranyl)ethenyl]-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

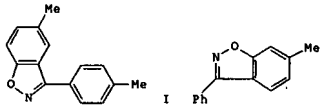
L12 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



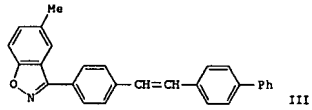
Not found in Rg or Rq

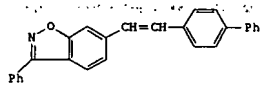
Karen Cheng

L12 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1979:152054 CAPLUS
DOCUMENT NUMBER: 90:152054
TITLE: Anil synthesis. 18. Preparation of styryl derivatives of 3-phenylbenzisoxazole
AUTHOR(S): De Sousa, Bernardo F. S. E.; Siegrist, Adolf Emil
CORPORATE SOURCE: Org.-Chem. Inst., Univ. Fribourg, Fribourg, Switz.
SOURCE: Helvetica Chimica Acta (1978), 61(8), 2904-40
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: German
GI


I

II


III


IV

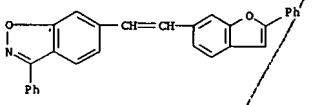
AB 3-P-tolyl-1,2- or -2,1-benzisoxazoles and 6-methyl-3-phenyl-1,2-benzisoxazoles reacted with anils of aromatic aldehydes in DMF containing KOH or KOCMe3 to give 3-(4-stilbenyl)-1,2- or -2,1-benzisoxazoles and 3-phenyl-6-styryl-1,2-benzisoxazoles, resp. Thus, 4-ClC6H4N:CHC6H4Ph-4 reacted with I and II to give III and IV, resp. Likewise, Schiff bases prepared from chloroanilines and 3-(p-formylphenyl)-1,2-benzisoxazoles reacted with Me- and p-tolyl-substituted heterocycles to give the corresponding heterocyclic styryl and stilbenyl derivs. About 200 compds. were prepared

IT 69617-10-3P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and fluorescence spectrum of)

RN 69617-10-3 CAPLUS

L12 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

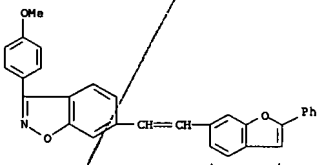
CN 1,2-Benzisoxazole, 3-phenyl-6-[2-(2-phenyl-6-benzofuranyl)ethenyl]- (9CI) (CA INDEX NAME)



IT 69617-11-4P 69617-12-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

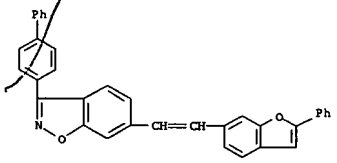
RN 69617-11-4 CAPLUS

CN 1,2-Benzisoxazole, 3-(4-methoxyphenyl)-6-[2-(2-phenyl-6-benzofuranyl)ethenyl]- (9CI) (CA INDEX NAME)

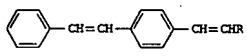


RN 69617-12-5 CAPLUS

CN 1,2-Benzisoxazole, 3-[1,1'-biphenyl]-4-yl-6-[2-(2-phenyl-6-benzofuranyl)ethenyl]- (9CI) (CA INDEX NAME)



L12 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1976:448246 CAPLUS
DOCUMENT NUMBER: 85:48246
TITLE: Anil synthesis. 11. Preparation of 4-styrylstilbene, 4-(benso[b]furan-2-yl)stilbene, and β-(2-phenylbenzo[b]furan-6-yl)styrene derivatives substituted in the 4'-position
AUTHOR(S): De Buman, Alain; Siegrist, Adolf E.
CORPORATE SOURCE: Org.-Chem. Inst., Univ. Freiburg, Fribourg, Switz.
SOURCE: Helvetica Chimica Acta (1974), 57(5), 1352-82
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: German
GI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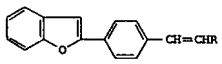
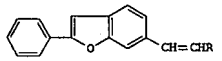

II


III

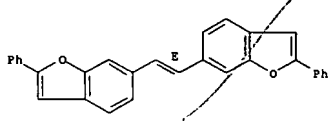
AB Stilbene and styrene derivs. I-III (R = heterocyclic-substituted phenyl or phenylbenzofuranyl) (156), one of which is known as a fluorescent whitening agent, were prepared by the anil synthesis, i.e., by reaction of the 4-chloroanils of 4-stilbenecarboxaldehyde [40200-69-9], p-(2-benzofuranyl)benzaldehyde [53348-90-6], and 2-phenyl-6-benzofurancarboxaldehyde [53348-88-2] with heterocyclic-substituted toluenes or 2-aryl-6-methylbenzofurans in the presence of DMF and KOH or KOBu-tert. The absorption and fluorescence λmax of the I-III are given. The anil synthesis produces a trans double bond exclusively, in contrast to the reaction of an aldehyde with a (EtO)2P(O)CH2-substituted aromatic compound, which gives a cis-trans mixture

IT 53348-60-0P 53415-36-4P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and absorption and fluorescence spectra of)

RN 53348-60-0 CAPLUS

CN Benzofuran, 6,6'-(1,2-ethenediyl)bis[2-phenyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

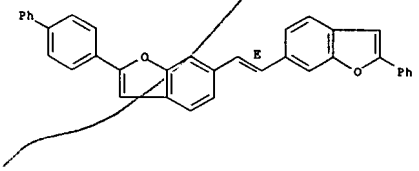


L12 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 53415-36-4 CAPLUS

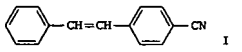
CN Benzofuran, 6-[2-(2-[1,1'-biphenyl]-4-yl-6-benzofuranyl)ethenyl]-2-phenyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



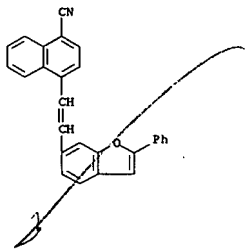
Karen Cheng

L12 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1976:405563 CAPLUS
DOCUMENT NUMBER: 85:5563
TITLE: Anil synthesis. Part 13. On the preparation of cyano-substituted styryl and stilbenyl compounds
AUTHOR(S): Coviello, Vincenzo; Siegrist, Adolf E.
CORPORATE SOURCE: Org.-Chem. Inst., Univ. Freiburg, Fribourg, Switz.
SOURCE: Helvetica Chimica Acta (1976), 59(3), 819-34
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: German
GI



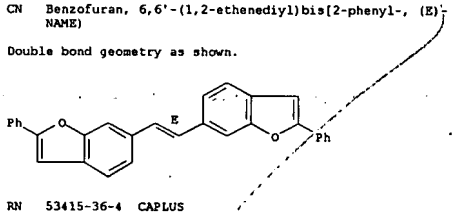
I

AB Schiff bases of aromatic carbocyclic or heterocyclic aldehydes react with 1 mole-equivalent 2(or 4)-MeC6H4CN in presence of DMF and NaOMe at room temperature to give stilbenyl or styryl compds., e.g., I. Some of the materials are optical brighteners for macromol. compds. Fluorescence spectra for several are given.
IT 59426-04-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 59426-04-9 CAPLUS
CN 1-Naphthalenecarbonitrile, 4-[2-(2-phenyl-6-benzofuranyl)ethenyl]- (9CI) (CA INDEX NAME)



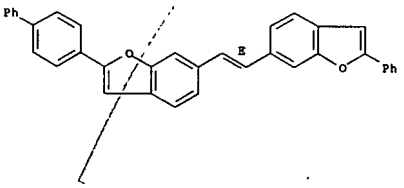
L12 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1975:461624 CAPLUS
DOCUMENT NUMBER: 83:61624
TITLE: Anil syntheses. 11. Preparation of 4'-substituted 4-styrylstilbene, 4-(benzo[b]furan-2-yl)stilbene, and β-(2-phenylbenzo[b]furan-6-yl)styrene derivatives
AUTHOR(S): De Buman, Alain; Siegrist, Adolf E.
CORPORATE SOURCE: Org. Chem. Inst., Univ. Freiburg, Fribourg, Switz.
SOURCE: Helvetica Chimica Acta (1974), 57(5), 1352-82
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: German
AB The Schiff bases of 4-stilbenecarboxaldehyde [40200-69-9], 2-(p-formylphenyl)benzo[b]furan [53348-90-6] and 2-phenyl-6-formylbenzo[b]furan and p-chloroaniline [106-47-8] were condensed with p-tolyl or methyl substituted aromatic heterocyclic or carbocyclic compds. in DMF in the presence of KOH or KOCMe3 to give 156 4'-substituted 4-styrylstilbene, 4-(benzo[b]furan-6-yl)stilbene, and β-(2-phenylbenzo[b]furan-6-yl)styrene derivs., all in the trans form. The absorption maximum and fluorescene maximum of the benzo[b]furan based compds. were compared with the corresponding stilbene derivs.
IT 53348-60-0 53415-36-4
RL: PRP (Properties)
(fluorescence and uv spectra of)
RN 53348-60-0 CAPLUS
CN Benzofuran, 6,6'-(1,2-ethenediyl)bis[2-phenyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 53415-36-4 CAPLUS
CN Benzofuran, 6-[2-(2-[1,1'-biphenyl]-4-yl-6-benzofuranyl)ethenyl]-2-phenyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

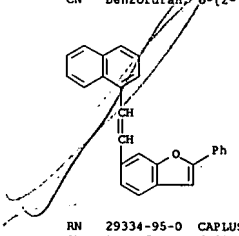


L12 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L12 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1975:444710 CAPLUS
DOCUMENT NUMBER: 83:44710
TITLE: Heterocyclic, ethylenic double bond-containing compounds as fluorescent whiteners in the testile industry
INVENTOR(S): Siegrist, Adolf E.
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Patentschrift (Switz.), 19 pp.
CODEN: SWXXAS
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

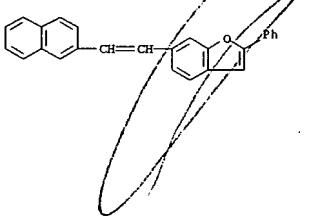
PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
CH 559758	A5	19750314	CH 1968-4115		19680320
ES 352964	A1	19720101	ES 1968-352964		19680420
PRIORITY APPLN. INFO.:			CH 1967-5735	A	19670421
			CH 1968-4115	A	19680320

GI For diagram(s), see printed CA Issue.
AB Fluorescent whiteners I (R, R3 = H, Me; R1 = H, Cl, Me, R4CH:CH; R2 = H, Me, Cl, Br, MeO; R4 = Ph, substituted Ph, naphthyl, thienyl; X = S, O) and II (R4 defined as in I, R5 = Ph, H; X = S, O) were prepared and were used to whiten polyester, polyamide, and polypropylene fibers, PVC [9002-86-2] and polystyrene [9003-53-6] from the melt. Thus, a mixture of 2-(p-tolyl)benzothiophene [25664-47-5] and PhCH:NHC6H4Cl-4 [780-21-2] in DMF in the presence of KOH gave fluorescent whitener I (R = R1 = R2 = R3 = H, R4 = Ph, X = S) [25664-50-0]. About 100 other I and II were similarly prepared
IT 29334-94-9P 29334-95-0P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and uv spectrum of)
RN 29334-94-9 CAPLUS
CN Benzofuran, 6-[2-(1-naphthalenyl)ethenyl]-2-phenyl- (9CI) (CA INDEX NAME)



RN 29334-95-0 CAPLUS
CN Benzofuran, 6-[2-(2-naphthalenyl)ethenyl]-2-phenyl- (9CI) (CA INDEX NAME)

L12 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L12 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1975:113167 CAPLUS
DOCUMENT NUMBER: 82:113167
TITLE: Anil synthesis. 10. Preparation of styryl derivatives of dibenzofurans
AUTHOR(S): Garmatter, Jacques; Siegrist, Adolf E.
CORPORATE SOURCE: Org. Chem. Inst., Univ. Freibourg, Freibourg, Switz.
SOURCE: Helvetica Chimica Acta (1974), 57(4), 945-79
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: German

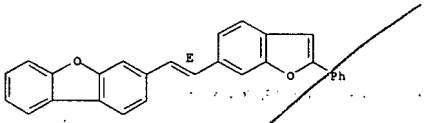
GI For diagram(s), see printed CA Issue.

AB Schiff bases of 2- and 3-dibenzofurancarboxaldehydes with p-ClC6H4NH2 were condensed with p-tolyl substituted heterocyclic and carbocyclic aromatic compds. in DMF in the presence of KOH or KOC(Me)3 to give the corresponding styryl derivs. or styryl analogs (I, R = heterocyclic residue, aromatic carbocyclic residue). The position of the absorption and fluorescence maximum of 3-dibenzofuran styryl derivs. was compared to the p-biphenylyl residue-containing derivs.

IT 52823-31-1 52823-32-2
RL: PRP (Properties)
(fluorescent spectrum of)

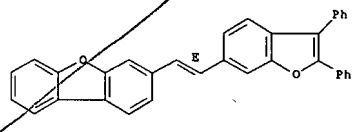
RN 52823-31-1 CAPLUS
CN Dibenzofuran, 3-[2-(2-phenyl-6-benzofuranyl)ethenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 52823-32-2 CAPLUS
CN Dibenzofuran, 3-[2-(2,3-diphenyl-6-benzofuranyl)ethenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L12 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1970:510913 CAPLUS
DOCUMENT NUMBER: 73:110913
TITLE: Fluorescent benzofurans and benzothiophenes
PATENT ASSIGNEE(S): CIBA Ltd.
SOURCE: Fr., 70 pp.
CODEN: FRXXAK
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

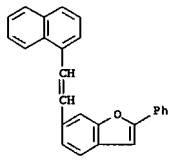
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1562477	A	19690404	FR 1968-1562477	19680418
CH 540247	A	19730928	CH 1967-5735	19670421
SE 356749	B	19730604	SE 1968-3995	19680326
US 3697513	A	19721010	US 1968-721593	19680416
GB 1224664	A	19710310	GB 1968-1224664	19680418
BE 713976	A	19681021	BE 1968-713976	19680419
NL 6805579	A	19681022	NL 1968-5579	19680419
IT 942023	B	19730320	IT 1968-36415	19680419
PRIORITY APPLN. INFO.:			CH 1967-5735 A	19670421

GI For diagram(s), see printed CA Issue.

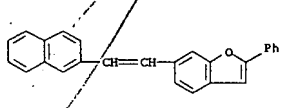
AB 2-(p-Tolyl)benzothiophenes and -benzofurans (I) are treated with aromatic aldehydes (including heterocyclics) to give stilbenes of the general formula II. Similarly prepared are III and IV, where X is O or S, and V. II-V are useful as fluorescent whiteners for polyesters, polyamides, and polyolefins. A total of 170 II-V, where R1-R6 are H, Me, Cl, Ph, Ch:CHAr, or (R1R2 =) or (R3R4 =) benzo, were prepared

IT 29334-94-9P 29334-95-0P 29334-98-3P
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)

RN 29334-94-9 CAPLUS
CN Benzofuran, 6-[2-(1-naphthalenyl)ethenyl]-2-phenyl- (9CI) (CA INDEX NAME)

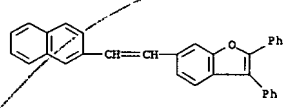


RN 29334-95-0 CAPLUS
CN Benzofuran, 6-[2-(2-naphthalenyl)ethenyl]-2-phenyl- (9CI) (CA INDEX NAME)



L12 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 29334-98-3 CAPLUS
CN Benzofuran, 6-[2-(2-naphthyl)vinyl]-2,3-diphenyl- (8CI) (CA INDEX NAME)



Karen Cheng

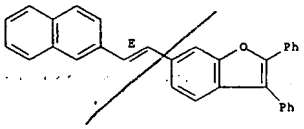
L12 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1969:438699 CAPLUS
DOCUMENT NUMBER: 71:38699
TITLE: Anil synthesis. II. Preparation of stilbene and styryl derivatives of nitrogen-free oxygen and sulfur heterocycles with aromatic character
AUTHOR(S): Siegrist, Adolf E.; Meyer, Hans R.
CORPORATE SOURCE: Forschungslab. TAF-Abt., CIBA A.-G., Basel, Switz.
SOURCE: Helvetica Chimica Acta (1969), 52(5), 1282-323
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 71:38699

AB Ph-substituted furans, benzo[b]furans, naphtho[1,2-b]- and -[2,1-b]furans, thiophenes, benzo[b]thiophenes, naphtho[2,1-b]thiophenes, dibenzofurans, dibenzothiophenes, phenoxathiins, and thianthrenes, containing 1 or more Me groups in the Ph group and (or) in a benzene ring fused to a heterocycle, gave with aromatic aldehyde anils in Me2NCHO, in the presence of KOH or tert-BuOK, the corresponding stilbene and styrene derivs.

IT 22798-69-2P 22798-76-1P 22798-78-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

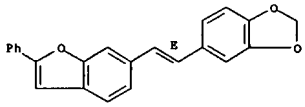
RN 22798-69-2 CAPLUS
CN Benzofuran, 6-[2-(2-naphthyl)vinyl]-2,3-diphenyl-, (E)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.



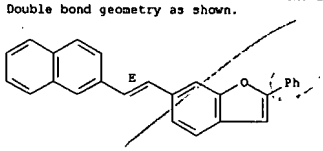
RN 22798-76-1 CAPLUS
CN Benzofuran, 6-[3,4-(methylenedioxy)styryl]-2-phenyl-, (E)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 22798-78-3 CAPLUS
CN Benzofuran, 6-[2-(1-naphthyl)vinyl]-2-phenyl-, (E)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.



10563465b

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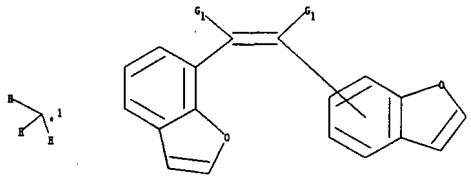

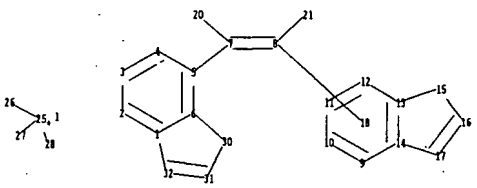

chain nodes :
7 8 20 21 25 26 27 28
ring nodes :
1 2 3 4 5 6 9 10 11 12 13 14 15 16 17 30 31 32
chain bonds :
5-7 7-8 7-20 8-21 25-26 25-27 25-28
ring bonds :
1-2 1-6 1-32 2-3 3-4 4-5 5-6 6-30 9-10 9-14 10-11 11-12 12-13 13-14
13-15 14-17 15-16 16-17 30-31 31-32
exact/norm bonds :
1-32 6-30 7-20 8-21 30-31 31-32
exact bonds :
5-7 7-8 13-15 14-17 15-16 16-17 25-26 25-27 25-28
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-14 10-11 11-12 12-13 13-14
isolated ring systems :
containing 9 :

G1:H,X,[*1]

G2:H,OH

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 20:CLASS
21:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 30:Atom 31:Atom 32:Atom

L6 STRUCTURE UPLOADED

=> d
L6 HAS NO ANSWERS
L6 STR

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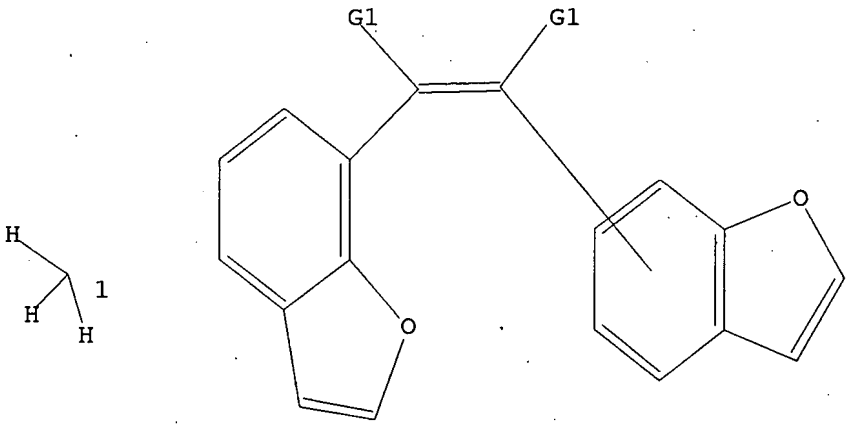
10563465b



G1 H,X,[@1]
G2 H,OH

Structure attributes must be viewed using STN Express query preparation.

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FULL SCREEN SEARCH COMPLETED - 1873 TO ITERATE

100.0% PROCESSED 1873 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L7 0 SEA SSS FUL L6

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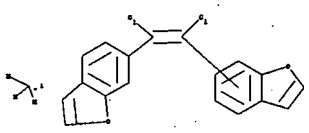
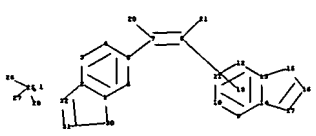




chain nodes :
7 8 20 21 25 26 27 28
ring nodes :

Karen Cheng

10563465b

1 2 3 4 5 6 9 10 11 12 13 14 15 16 17 30 31 32
chain bonds :
5-7 7-8 7-20 8-21 25-26 25-27 25-28
ring bonds :
1-2 1-6 1-30 2-3 2-32 3-4 4-5 5-6 9-10 9-14 10-11 11-12 12-13 13-14
13-15 14-17 15-16 16-17 30-31 31-32
exact/norm bonds :
1-30 2-32 7-20 8-21 30-31 31-32
exact bonds :
5-7 7-8 13-15 14-17 15-16 16-17 25-26 25-27 25-28
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-14 10-11 11-12 12-13 13-14
isolated ring systems :
containing 9 :

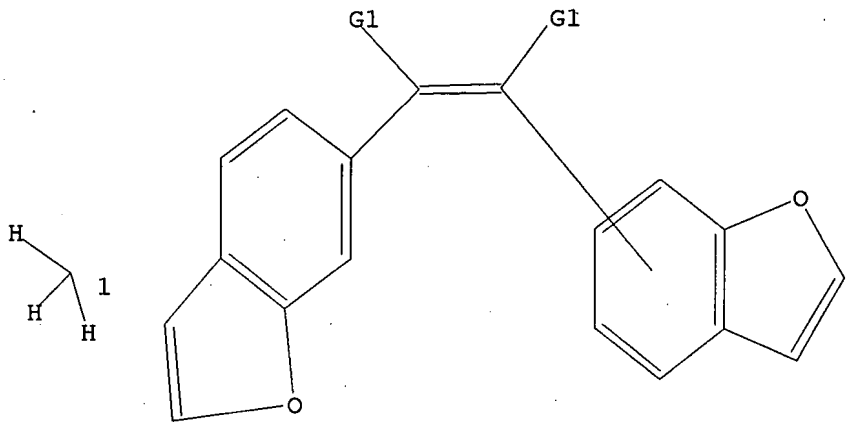
G1:H,X,[*1]

G2:H,OH

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 20:CLASS
21:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 30:Atom 31:CLASS 32:CLASS

L8 STRUCTURE UPLOADED

=> d
L8 HAS NO ANSWERS
L8 STR



G1 H,X,[@1]
G2 H,OH

Structure attributes must be viewed using STN Express query preparation.

Karen, Cheng

10563465b

=> s l8 full
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FULL SCREEN SEARCH COMPLETED - 1697 TO ITERATE

100.0% PROCESSED 1697 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.01

L9 4 SEA SSS FUL L8

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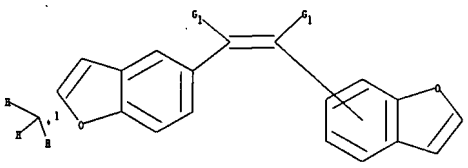
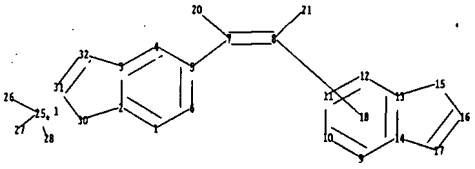




chain nodes :
7 8 20 21 25 26 27 28
ring nodes :
1 2 3 4 5 6 9 10 11 12 13 14 15 16 17 30 31 32
chain bonds :
5-7 7-8 7-20 8-21 25-26 25-27 25-28
ring bonds :
1-2 1-6 2-3 2-30 3-4 3-32 4-5 5-6 9-10 9-14 10-11 11-12 12-13 13-14
13-15 14-17 15-16 16-17 30-31 31-32
exact/norm bonds :
2-30 3-32 7-20 8-21 30-31 31-32
exact bonds :
5-7 7-8 13-15 14-17 15-16 16-17 25-26 25-27 25-28
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-14 10-11 11-12 12-13 13-14
isolated ring systems :
containing 9 :

G1:H,X,[*1]

G2:H,OH

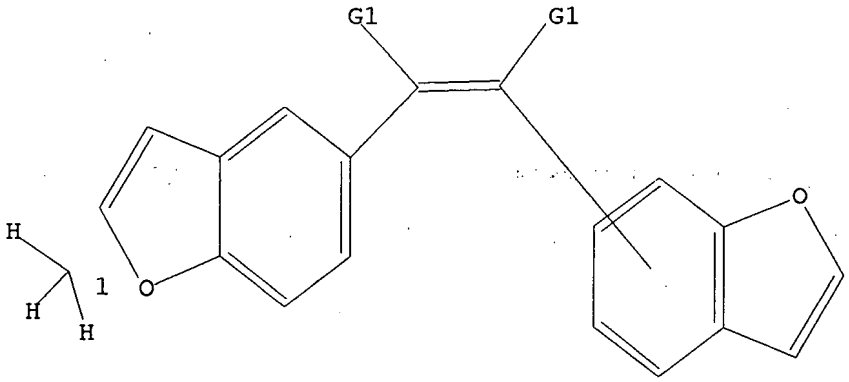
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 20:CLASS
21:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 30:Atom 31:CLASS 32:CLASS

Karen Cheng

10563465b

L10 STRUCTURE UPLOADED

=> d
L10 HAS NO ANSWERS
L10 STR



G1 H,X,[@1]
G2 H,CH

Structure attributes must be viewed using STN Express query preparation.

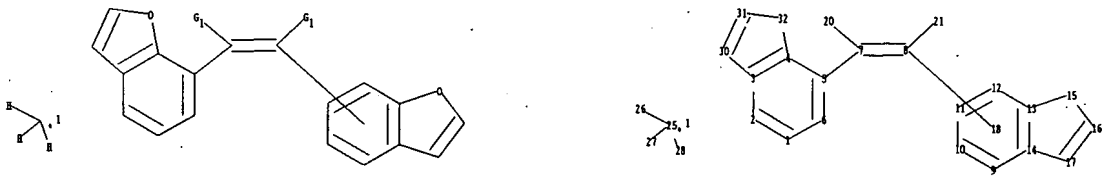
=> s l10 full
FULL SEARCH INITIATED 10:36:57 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2561 TO ITERATE

100.0% PROCESSED 2561 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L11 1 SEA SSS FUL L10

=>
Uploading C:\Program Files\Stnexp\Queries\10563465f.str

Karen Cheng



chain nodes :
7 8 20 21 25 26 27 28
ring nodes :
1 2 3 4 5 6 9 10 11 12 13 14 15 16 17 30 31 32
chain bonds :
5-7 7-8 7-20 8-21 25-26 25-27 25-28
ring bonds :
1-2 1-6 2-3 3-4 3-30 4-5 4-32 5-6 9-10 9-14 10-11 11-12 12-13 13-14
13-15 14-17 15-16 16-17 30-31 31-32
exact/norm bonds :
3-30 4-32 7-20 8-21 30-31 31-32
exact bonds :
5-7 7-8 13-15 14-17 15-16 16-17 25-26 25-27 25-28
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-14 10-11 11-12 12-13 13-14
isolated ring systems :
containing 9 :

G1:H,X,[*1]

G2:H,OH

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 20:CLASS
21:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 30:Atom 31:CLASS 32:CLASS

L12 STRUCTURE UPLOADED

=> d
L12 HAS NO ANSWERS
L12 STR

Karen Cheng